C/ 00	SC	Р	L	# 99300	C/ 00	SC		Р	L	# 307
hompson, G	Seoffrey	Nortel			Dawe, Pier	rs		Agilent		
Comment Typ	pe TR	Comment Status A		D3.0 #795	Comment	Туре	TR	Comment Status D		
protocol i on. The F TDMA va descriptic multipl access time di TDMA access MAC p	is hidden thr P2MP portion ariety yet nor on thereof: e access s method ivision s domain protocol	cept to 802.3 of doing shared ac ough lack of use of the proper to n of the proposal is, in fact, a ne ne of the following standard term	erminology to d w shared acces is appears app	escribe what is going as protocol of the ear anywhere in the	Ethern remed http://v remed draft is standa industr LX10.	iet?' wit y.' Spe www.iee ies are indeed ard PCS rial, corr These s netwo	h a respo ccific reme ce802.org filed agai d making b behavio e and me divergen rks either	343 against D3.0, 'Are we sur onse of 'REJECT. The comme adies were filed in D3.0 comm J/3/efm/public/comments/d3_ nst D3.1 clause 66, 57, 56 ar a mess of traditional Etherne r for some of the suite of PMI tro) Ethernet use. In particula t requirements do no service	enter is encour nents 313 380 D/pdfs/dawe_ 2 nd the front ma t by attempting Ds needed for ' ar, 100BASE-L	raged to file a suggested with attachment 2_0104.pdf. Revised tter (99). The current to demand non- traditional' (campus, .X10 and 1000BASE-
		ons of a "shared LAN" is the cla itting it is one!	im that P2MP is	s emulating a shared			nments.			
					Proposed	Respon	ise	Response Status O		
		s at its most basic level a maste as such using established 802 t			C/ 00	SC		Р	L	# 372
Proposed Re	sponse	Response Status U			Thompson	, Geoffi	rey	Nortel		
ACCEPT	IN PRINCIP	PLE.			Comment	Туре	TR	Comment Status D		
Master-sl	lave relation	ship is described in 64.3.1. item	h.					n the draft to assure that the r included in the published stand		mer text (Ref: SB Ops
,		.1 as follows:			Suggested	IRemea	ly			
	n at any give	te on a shared medium by allow n time across the network using			text:			next version of the draft to inc seminars, or educational cou		
, ,	SC	P Infineon Techr	L	# 251	inform consid	ation or lered th	n IEEE st	andards shall make it clear th al views of that individual rath station of the IEEE."	at his or her vi	ews should be
Comment Typ Please re		Comment Status D nments by Burkart Schneiderhe	inze (Infineon).		Proposed	Respon	ise	Response Status O		
SuggestedRe	emedy									
Remedie	s are propos	sed in the comments by Schneid	lerheinze.							
Proposed Re	chonco	Response Status O								

CI 00	SC	Р	L	# 121
Morales E	Barroso, Jose	L&M Data Co	mmunica	

Morales Barroso, Jose

Comment Status D Comment Type T

The large number of connections based on EFM that will exist in the future makes it very advisable to apply power management procedures (copper & optical fiber) in order to eliminate "ghost power", because the average use of this connections is less than 5 hours/day (< 20% of the total time). For example, with 200 million users, the energy saving would be of the order of 14 TWh/year, equivalent to 1,4 Billion € (<>1,75 Billion \$).

SuggestedRemedy

There is a power management specified in Std 802.11-1999, Clause 11, Subclause 11.2, that will serve as a basis to implement the control via the OAM protocol or with a specific procedure. In order to reduce the power consumed by the equipment, diverse components of these equipment can become disconnected during periods of inactivity.

Applying power management to all the Ethernet equipment (not only EFM) would result in a huge energy saving, due to the high number of devices that use this technology.

Proposed Response	Response Status	0	
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CI 00	SC	Р	L
Morales E	Barroso, Jose	L&M Data Con	nmunica

Comment Type T Comment Status D

It is very important for Ethernet over voice-grade copper connections to supply power either from the Central Office (CO) like in the European ISDN, or from the switch/hub in LANs. This feature would have many advantages, not only for service providers, but also for users of 10PASS-TS or 2BASE-TL in LANs and campus networks: since it enables users to connect remote devices. For example, the cameras used in video-monitoring systems would need only one pair to transport the signal and the power, rather than the four pairs specified now in 802.3af. This would increase the link length from 100 m to 2 km.

SuggestedRemedy

The specifications of 802.3af should be extended to include voice-grade copper, in order to make the changes required.

Clause 31 should be modified to something like this: "DTE powering is intended to provide both data transfer and power feed to 10BASE-T, 100BASE-TX, 1000BASE-T, 10PASS-TS or 2BASE-TL devices".

As a reference, the ISDN and HDSL connections in Europe supply power from CO to the CPEs through POTS cables.

Proposed Response Response Status O

C/ 00 S	SC	Р	L	# 99303
Dawe, Piers		Agilent		
Comment Type	TR	Comment Status R		D3.0 #343

Comment Type TR

Are we sure we haven't messed up the legacy Ethernet?

This rather vague comment is to replace an old TR which was triggered by counters(?) which fouled up regular Ethernet, and I've submitted it to encourage all readers to consider if the implications of the changes and additions in EFM could cause an unintended issue to existing Ethernets, including 10G Ethernet.

SC

SuggestedRemedy

Check list: Counters and registers still OK for legacy Ethernet? Management stuff still OK? 100BASE-LX10 and 1000BASE-LX10 not tied to any public-networks-specific requirements? No damage to 10G? No outlawing current MAC, RS, PCS, PMAs in subscriber access networks? Other? Proposed Response Response Status U

REJECT.

The commenter is encouraged to file a suggested remedy.

120

Cu duplex D3.0 #500

C/ 00	SC	Р	L	#	99302
Grow, Rob	ert	Intel			

Comment Type TR Comment Status A

Full-duplex is not used correctly. A section that illustrates this well is 56.1 (bottom of page 158). P2MP does not use full duplex links -- it is a passive star.

EFM copper confuses the existing uses of full-duplex and half-duplex (see 1.1.1, 1.1.1, 1.1.1.2, 1.4.135, 1.4.139, 4.1.1, 4.1.2.1.1, etc.) In the published standards, full-duplex text generally is written with the assumption that CRS and COL do not need to be implemented in full duplex mode.

Similar terms are used interchangably or linked. For example "full duplex" as shorthand for "full duplex mode", (802.3ah, page 24 line 13 and 17), full duplex link (802.3, 4.1.1) and full duplex operation being synonomous with full duplex mode(802.3, 4.1.1) and MAC full duplex mode linked with an underlying full duplex PMD link).

The base

SuggestedRemedy

Harmonize use of full duplex and half duplex with the published standard. I believe this requires a full search of the base documents to make sure text does not contradict functionality exploited by EFM.

Most of the conflicts with EFM copper uses will require base document changes.

I believe full duplex and half duplex should not be used in P2MP descriptions except for describing full duplex emulation or when specifically referencing a mode as described in the base document.

Proposed Response Response Status U

ACCEPT IN PRINCIPLE.

The first paragraph of the comment is factually incorrect. P2MP does not use a passive star topology like 10BASE-FP.

P2MP does provide simultaneous full duplex transmission on a single strand of fiber via wavelength division multiplexing.

Regarding the second paragraph,

On p 318, line 50, change "full duplex operation" to "simultaneous transmission and reception without contention".

Check other instances of full or half duplex in clause 61 and reference Annex 4A wherever reference is made to the full-duplex MAC.

The third paragraph of the comment does not cite any errors or deficiences in the draft as it refers to material that is unchanged from the base standard.

CI 00	SC		Р		L	# 99301
Grow, Rob	pert		Intel			
Comment	Туре	TR	Comment Status	Α		ALL D3.0 #528

Inappropriate uses of error rate.

SuggestedRemedy

Search for error rate and replace with error ratio to be consistent with similar change implemented by IEEE Std 802.3aj-2003.

Proposed Response Response Status U ACCEPT IN PRINCIPLE.

Where the quantity is errors per bit change to ratio. Where the quantity is error per unit time then it can remain as rate.

C/ 00	SC	Р	L	# 3	74
Thompson, (Geoffrey	Nortel			

Comment Type TR Comment Status D

I continue to believe that many of the technically sound concepts included in this proposal, while suitable for the access market, are fundamentally at odds with the underlying principals of Ethernet embodied in IEEE Std 802.3 to date. While we have made changes in the past they have been all realativley minor and most of them have worked out. Some, in retrospect, while they seemed like a good idea at the time have set bad precedents for later work. Across it all Std 802.3 has remained conceptually pretty consistent. P802.3ah has several significant departures from that conceptual consistency. I believe that the precedents they set will cause significant confusion over the long term and destroy the conceptual consistency of Ethernet as it is known.

The specific areas that concern me most are:

Loss of the peer relationship to a provider - customer asymmetry Unidirectional transport

Loopback

New non CSMA/CD mechanisms for shared media access arbitration. OAM mechanism that are not consistent with the earlier Management Low speed operation not consistent with prevalent perception of Ethernet. The requirement for and complexity of ranging & discovery protocols Requirement for additional levels of station addressing

SuggestedRemedy

Revise the PAR and the draft so that what is currently designated as P802.3ah can be approved as a separate full/new standard that is approved as and will remain a separate standard from IEEE Std 802.3. This will allow this project and its provider oriented successors/amendments to more freely meet the requirements of this significantly different marketplace and set of customers.

Pursue further steps to approval, both editorially and procedurely as a separate standard.

Proposed Response Response Status **O**

CI 00	SC		Р	1	# 405	C/ 00	SC 0	P10	L1	# 99305
Grow, Rob			Intel	-	# 1 05	James, Da	-	JGG		# <u>55505</u>
Comment	Туре І		Comment Status D			Comment	Type TR			D3.0 #730
#500,	#512, #53	7, #543	vill sign off my following D3 satisfied, I will sign it off ar			This is the do	s normally pro ocument is in	e, not part of the specification. ovided (or so says Tom Alexande FrameMaker source. Its not need ranslation ambiguities.		
TR.	136 #320 1	s mosuy	satistica, i will sight ton al		a new more specific	Suggeste	•	ansiation ambiguites.		
Suggested	dRemedy					00		ollowing page.		
Proposed	Response)	Response Status O			Proposed REJE	<i>Response</i> CT.	Response Status U		
	00.0			1.05	"	This h	nas usually be	een added to 802.3 docs.		
<i>CI</i> 00 James, Da	SC 0 avid		P1 JGG	L 35	# 99304	C/ 00	SC 0	P 2	L 1	# 99306
Comment	Tvpe -	ſR	Comment Status A		D3.0 #726	James, Da	avid	JGG		
	sive capita					Comment	51			D3.0 #72
			 Instruct your editors to eli d the first word of headings 		tion on everything	This t chang		age page is blank, with no notice	of any desire to	change or method of
unnec	essary an	d distra	talization, for emphasis, fiel cting. With so many capitals					as not addressed when marked as on is taken this time.	s editorial, in pre	vious working group
field n	ame begir	ns and a	nother one ends.			Suggeste	dRemedy			
	at the front mistakes		nrough the end, and have a ifficient.	a policy in mind. S	Simply repeating the		minate the pa	age escribing what and when will hap	nen to this nage	
Suggested	dRemedy					,	Response	Response Status U	Sen to this page.	
for net ==>	twork Ope	rations,	Administration and Mainter	nance (OAM) is i	ncluded	,	EPT IN PRIN	'		
for net Proposed	•	,	administration and mainten Response Status U	ance (OAM) is ir	locluded			inder that text will be added on pu	ublication. An ed	litors note can be
•	PT IN PR		•			addeo	d to this effec	it in the second s		
ACCL						C/ 00	SC 00	P1	L 37	# 627
Will try	y to improv	ve on ca	pitalization			Dawe, Pie	ers	Agilent		
						Comment 10G	Туре Е	Comment Status D		
						Suggester 10 Gt	-			
						Proposed	Response	Response Status 0		

D3.0 #730

D3.0 #727

P**2** P 9 C/ 00 SC 00 L4 # 628 C/ 00 SC 00 L6 # 632 Dawe, Piers Dawe, Piers Agilent Agilent Comment Status D Comment Type E Comment Status D Comment Type Е Comment 727 10Gb/s SuggestedRemedy SuggestedRemedy Add editor's note to explain this page? 10 Gb/s Proposed Response Response Status O Proposed Response Response Status **O** C/ 00 SC 00 Ρ**4** L14 # 629 C/ 00 SC 00 PAII L # 626 Dawe, Piers Dawe, Piers Agilent Agilent Comment Type E Comment Status D Comment Type Ε Comment Status D 'Clauses 56 through Clause 67 and Annex 58A through 67A' should be ... TMs and comment 743? SuggestedRemedy SuggestedRemedy Clauses 56 through 67 and Annexes 58A through 67A (like p3 line 50) Response Status 0 Proposed Response Response Status 0 Proposed Response C/ 00 SC 00 P**4** L 25 # 630 C/ 00 SC 61.2.1.3.3 P364 L 37 # 585 Cravens, George Dawe. Piers Agilent Mindspeed Comment Status D Comment Status D Comment Type E Comment Type T Missing space and comma PPM tolerance on the ipg_timer and rate_matching_timer don't seem to belong. While the MII clock has a 100 ppm requirement, this information doesn't belong here. SuggestedRemedy " '2001 provides' s/b '2001, provides'" Remove both mentions of tolerance +- 100 ppm. SuggestedRemedy Proposed Response Response Status 0 Remove both mentions of tolerance +- 100 ppm. C/ 00 SC 00 P**4** L 29 # 631 (lines 37 and 40). Dawe, Piers Agilent Proposed Response Response Status 0 Comment Status D Comment Type E Wrong reference

P802.3ah Draft 3.1 Comments

SuggestedRemedy

'802.3ah-20xx' should be '802.3ak-20xx'. Or both.

Proposed Response Response Status O

C/ 00 SC 61.2.2 Cravens, George	P 365 Mindspeed	L 39	# 586	C/ 01 SC 1 Dawe, Piers	P 15 Agilent	L 21	# 265
Comment Type E PMEPME stutters.	Comment Status D			Comment Type E Broken quantity	Comment Status D		
SuggestedRemedy Change to PME.				SuggestedRemedy Use non-breaking spa	ace between 100 and Mb/s.		
Proposed Response	Response Status 0			Proposed Response	Response Status O		
C/ 01 SC Schneiderheinze, Burkart	P Infineon Techr	L	# 430	C/ 01 SC 1 Dawe, Piers	P 15 Agilent	L 45	# 266
Comment Type E PMI not replaced by F	Comment Status D PME 4 times in clause 1			Comment Type E Unwanted , and miss	Comment Status D		
SuggestedRemedy replace PMI by PME				SuggestedRemedy 61 and 63.) Also rer	nove , from line 42.		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 01 SC 1 Dawe, Piers	P 14 Agilent	L 54	# 264	C/ 01 SC 1.3 Jacob Ben Ary	P14 TELDOR Wir	L 12 es & Cabl	# [
Comment Type E Shouldn't this be ANS	Comment Status D SI T1? or ATIS T1?			Comment Type E There are new acces mentioned in the norr	Comment Status D s cables standards, IEC 62255	series. This new	v standard should be
	'ANSI T1' or "ATIS T1' an ake similar changes to trial-use <i>Response Status</i> 0			SuggestedRemedy Add the following stat IEC 62255 - Multicore communications (Hig	ndard: e and symmetrical pair/quad ca h bit rate Digital access Teleco		
C/ 01 SC 1	P14	L 9	# 263	Proposed Response	Response Status O		
Dawe, Piers Comment Type E	Agilent Comment Status D			C/ 01 SC 1.3 Grow, Robert	P 14 Intel	L 24	# 99343
Formatting				Comment Type TR	Comment Status A		D3.0 #512
SuggestedRemedy), make the 16 a subscript and	romovo tho brad	akota	51	ady in IEEE Std 802.3ae-2002	, but with a year a	
Proposed Response	Response Status O		JNG10.	SuggestedRemedy Delete or correct as a a "Change" (to 802.3	appropriate. If the document nate a propriate. If the document nate a provide the set of	umber and title ar	e correct, it should be
				Proposed Response	Response Status U		

C/ 01 SC 1.3 Barry, O'Mahony	P 14 Intel	L 40	# 418	C/ 01 SC 1.4 Dawe, Piers	P 15 Agilent	L 35	# 635
Comment Type T	Comment Status D is need updating, to align them	with the documer	nts that are actually	Comment Type E 10km needs a space SuggestedRemedy	Comment Status D		
•••	03) to G.994.1 (2004)			"10 km, 20 km" Proposed Response	Response Status O		
Change "T1.424/Tria	al-Use Part 1" to "ANSI T1.424-	2004"; delete Par	t 3 reference.				
Change T1.417 to Al	NSI T1.417						
Proposed Response	Response Status O						
C/ 01 SC 1.4 Dawe, Piers	P 15 Agilent	L 22	# 634				
Comment Type E Unwanted '100BASE	Comment Status D E-BX-10'						
SuggestedRemedy Remove							
Proposed Response	Response Status O						
C/ 01 SC 1.4 Dawe, Piers	P 15 Agilent	L 22	# 633				
	Comment Status D SE-BX10 has changed followin reated differently to 1000BASE						
SuggestedRemedy							
Change all or none.							
Proposed Response	Response Status 0						

01 SC 1.4 P15 L 38 # 9 mes, David JGG	9344 1.4.xxx P2MP Discovery:
mment Type TR Comment Status A	D3.0 #732
Excessive capitalization. There is no point in capitalizing every defined word (or	many of 1.4.xxx P2MP Discovery window:
them, with no apparent pattern). This confuses the parsing of sentences, since c words, registers, fields, etc. are all capitalized.	efined ==> 1.4.xxx P2MP discovery window:
ggestedRemedy	
1.4.xxx Aggregation group:	1.4.xxx P2MP Timestamp: ==>
==> 1.4.xxx aggregation group:	1.4.xxx P2MP timestamp:
1.4.xxx Bandplan:	1.4.xxx Point to Multi-Point Network (P2MP):
==>	==> 1.4.xxx point to multi-point network (P2MP):
1.4.xxx bandplan:	1.4.xxx Point-to-point emulation (P2PE):
1.4.xxx Coupled Power Ratio (CPR):	==>
1.4.xxx coupled power ratio (CPR):	1.4.xxx point-to-point emulation (P2PE):
1.4.xxx Downstream:	1.4.xxx Ranging:
==> 1.4.xxx downstream:	1.4.xxx ranging:
	1.4.xxx Reflectance:
1.4.xxx Grant: Within P2MP protocols, ==>	==> 1.4.xxx reflectance:
1.4.xxx grant: Within P2MP protocols,	
1.4.xxx Logical Link Identifier (LLID):	1.4.xxx Upstream: ==>
==> 1.4.xxx logical link identifier (LLID):	1.4.xxx upstream:
	Proposed Response Response Status U
1.4.xxx MPCP Registration:	ACCEPT IN PRINCIPLE.
1.4.xxx MPCP registration:	Will capitalize abbreviations in a definition to be consistant with 802.3ae (part of base
1.4.xxx OAM Discovery:	document), Otherwise they will not be.
==> 1.4.xxx OAM discovery:	For definitons they will not be capitalized
	C/ 01 SC 1.4 P16 L2 # 408
1.4.xxx Operations, Administration and Maintenance (OAM):	Grow, Robert Intel
1.4.xxx operations, administration and maintenance (OAM):	Comment Type E Comment Status D
1.4.xxx Optical Line Terminal (OLT):	Grammar problem.
==> 1.4.xxx optical line terminal (OLT):	SuggestedRemedy Change "an subscriber" to "a subscriber".
1.4.xxx Optical Network Unit (ONU):	Proposed Response Response Status O
	· · · · · · · · · · · · · · · · · · ·

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 8 of 130 C/ 01

SC 1.4

			F002.3an	Dialt 5.1 Comm	ents			
C/ 01 SC 1.4 Dawe, Piers	P 16 Agilent	L 2	# 636	C/ 01 S James, David	SC 1.4	<i>Р</i> 17 JGG	L 5	# 99345
Comment Type E "Grammar; comment	Comment Status D s 851, 520,790"			Comment Typ Excessive		Comment Status A	lizing every acro	D3.0 #73: nvm (or many of them.
SuggestedRemedy	oser to **a** subscriber,"			with no ap registers, t	parent patte ields, etc. a	ern). This confuses the parsing are all capitalized. ual clearly shown acronyms n	g of sentences, s	since defined words,
Proposed Response	Response Status O					per of these, and failures in the n elevated to a TR.	e past when atte	mpting to resolve these
C/ 01 SC 1.4 Dr. David V. James	P 16	L 8	# 591			essary capitalization, provide a search, then for me and/or oth		
Comment Type TR	Comment Status D			SuggestedRer	nedy			
	ation, as can be seen by lookin	g at Definitions a	ire	CO Centra	al Office			
****>>>>NOT<<<<***	** capitalized just because they illy done this (mostly) right.			==> CO centra	l office			
SuggestedRemedy				CPE Cust	omer Premi	ses Equipment		
the IEEE Style manu	to submitted comments arroga al, which is available on line.			==> CPE custo	mer premis	es equipment		
	g editorial guidelines (which a erences would be useful, such		lia ao) of distributing	CPR Coup	led Power I	Ratio		
A response of 802.3	emplates/StdBook.pdf. precedence is irrelevent: your			==> CPR coup	led power ra	atio		
capitalized unless pro	the precedence (most recent 8 oper nouns.	02.3) also shows	s definitions not	DMT Disc	ete Multi-To	one		
Proposed Response	Response Status O			==>				
ropocou reoponoo				DM1 discr	ete multi-tor	ne		
				DA Destin	ation Addre	SS		
				==>	ation addres			
				EFM Ethe	rnet in the F			
					rnet in the fi	irst mile		
					thernet in th	ne First Mile		
				==> EFM Cu E	thernet in th	ne first mile		
					ard Error Co	orrection		
				==> FEC forwa	rd error cor	rection		
				FSW Fran	ne Svnchror	nization Word		

FSW Frame Synchronization Word ==> FSW frame synchronization word<cr LLID Logical Link identifier

==>	==>
LLID logical link identifier	PAFH PMI aggregation function header
MPCP Multi-Point Control Protocol	PAM Pulse Amplitude Modulation
==>	==>
MPCP multi-point control protoco	PAM pulse amplitude modulation
OAM Operations, Administration, and Maintenance	PMS-TC Physical Media Specific - Transmission Convergence
==>	==>
OAM operations, administration, and maintenance	PMS-TC physical media specific - transmission convergence
OAMPDU Operations, Administration, and Maintenance Protocol Data Unit	PSD Power Spectral Density
==>	==>
OAMPDU operations, administration, and maintenance protocol data unit	PSD power spectral density
ODN Optical Distribution Network	SA Source Address
==>	==>
ODN optical distribution network	SA source address
OH Overhead	SHDSL Single-pair High-speed Digital Subscriber Line
==>	==>
OH overhead	SHDSL single-pair high-speed digital subscriber line
OLT Optical Line Terminal	STU-O SHDSL Transceiver Unit - Central Office
==>	==>
OLT optical line terminal	STU-O SHDSL transceiver unit - central office
ONU Optical Network Unit	STU-R SHDSL Transceiver Unit - Remote
==>	==>
ONU optical network unit	STU-R SHDSL transceiver unit - remote
ORLT Optical return loss tolerance	TCM Trellis Coded Modulation
==>	==>
ORLT optical return loss tolerance	TCM Trellis coded modulation
P2P Point to Point	UPBO Upstream power back-off
==>	==>
P2P point to point	UPBO upstream power back-off
P2PE Point to Point Emulation	Proposed Response Response Status U
==>	ACCEPT IN PRINCIPLE.
P2PE point to point emulation	Will capitalize abbreviations in a definition to be consistant with 802.3ae (part of base
P2MP Point to Multi-Point ==> P2MP point to multi-point	document), Otherwise they will not be. For definitons they will not be capitalized
PAF PMI Aggregation Function ==> PAF PMI aggregation function	

PAFH PMI Aggregation Function Header

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 10 of 130

C/ 01 SC 1.4

C/ 01 SC 1.5 Beili, Edward	P17 Actelis Network	L 38 s	# 382	C/ 01 SC 1.5 Beili, Edward	P17 Actelis Netwo	L 47 orks	# 384
Comment Type E PAF is defined as P	Comment Status D MI aggregation function while it is	PME aggrega	tion function	Comment Type E STU-O is defined in:	Comment Status D stead of STU-C.		
SuggestedRemedy Replace PMI with Pl	ME in the description.				STU-R definitions with the follo	owing:	
Proposed Response	Response Status O			STU - SHDSL Tra STU-C - STU at the STU-R - STU at the	e Central Office end		
C/ 01 SC 1.5 Beili, Edward	P17 Actelis Network	L 39 s	# 383	Proposed Response	Response Status O		
function header.	Comment Status D PMI aggregation function header d anywhere in the text.	while it should	be PME aggregation	C/ 01 SC 1.5 Beili, Edward Comment Type E	P 17 Actelis Netwo Comment Status D		# <u>385</u>
SuggestedRemedy Remove PAFH from	the list of abbreviations.			SuggestedRemedy	used in the text are not listed in	1 Abbreviations s	ection.
Proposed Response	Response Status 0			DSL - Digital Subs VDSL - Very high	obreviations to the list: scriber Line speed Digital Subscriber Line rm covering the family of all DSL	tophnologios, r	
C/ 01 SC 1.5 Beili, Edward	P 17 Actelis Network	L 45 s	# 386	VDSL VDSL LT - Line Terminat NT - Network Tern	tion	- technologies, e	.g. 3103L, AD3L,
Comment Type E Typo: "sddress" inst	Comment Status D ead of "address"			TC - Transmission VTU - VDSL Trans	Convergence		
SuggestedRemedy Correct the typo.				VTU-R - VTU at th Proposed Response			
Proposed Response	Response Status 0						
				C/ 04A SC Braga, Aldobino	P UNH-IOL	L	# 156
				Comment Type E Many of the cross-re	Comment Status D eferences don't work		
				SuggestedRemedy Please fix the cross-	-references.		

Proposed Response

Response Status 0

			P802.3ah I	Draft 3.1 Comme	ents			
C/ 04A SC 4A.1.2 Braga, Aldobino	<i>P</i> 556 UNH-IOL	L 50	# 145	CI 04A S Braga, Aldobino	C 4A.2.3.1	P 562 UNH-IOL	L 41	# 147
Comment Type E Figure 4A-1 is not the	Comment Status D architectural model mentioned	I.		Comment Type Missing cro	E bss-reference.	Comment Status D		
SuggestedRemedy Please add the Archit numbers and Figure r	ectural model, label it Figure 4/ eference.	A-1, and increme	ent all other Figure	SuggestedRem Please cha generated.	inge "CRC v	value is generated" to "(CRC value as d	efined in 3.2.8 is
Proposed Response	Response Status O			Proposed Resp	oonse	Response Status O		
C/ 04A SC 4A.1.4 Braga, Aldobino	<i>P</i> 558 UNH-IOL	L 31	# 146	C/ 04A S Braga, Aldobino	C 4A.2.3.2.1	Р 562 UNH-IOL	L 54	# 153
Comment Type E The note in the figure SuggestedRemedy Note should read, "NO Proposed Response	Comment Status D is incomplete. DTE-a1, b2, etc., refer to function Response Status O	ons listed in 4A.	.4."	than a Clau A Clause 4 ignores the	e transmitting use 4 full dupl FD MAC and carrierSense	Comment Status D variable with carrierSense we ex MAC. PHY combo is able to trans signal. Using an Annex 4A the MAC will not be able to	smit while receiv FD MAC and th	ring because the MAC ne same PHY will
C/ 04A SC 4A.2.2 Braga, Aldobino Comment Type E	P 561 UNH-IOL Comment Status D	L 35	# 152	should be "	lding a "carrie or-ed" with ca	rSenseMode bit". When the rrierSense. When the bit is le checked before sending t	not set (false),	then transmitting
"Within the Pascal de that has been added t Layer Management is MAC behavior as obs 3:1990." As this has nothing to removed.	o have the following statement scriptions provided in Clause 4 to support management service being implemented. These cha erved at the LLC-MAC and MA do specifically with half duplex	, a "‡"in the left i es. These lines a anges do not affi .C-PLS interface	re only required if ect any aspect of the s of ISO/IEC 8802-	Pg. 564, lin Pg. 564, lin Pg. 568, lin Pg. 569, lin Pg. 569, lin Pg. 571, lin Pg. 572, lin	te 53: part in p te 54: don't m te 32: add a tr te 52: In Initial te 53: carrierS te 54: carrierS te 03: carrierS	ese areas in the document: barenthesis is only true if car onitor carrierSense if carriers ansmit state variable called ize procedure set carrierSer ense should only be checke ense should only be checke ense should only be checke explain listening to carrierS	SenseMode bit carrierSenseMonseMode ed if carrierSensed i	not set. ode eMode bit is set eMode bit is set eMode bit is set
SuggestedRemedy Please add the staten symbols are replaced	nent, and fix the Pascal code a wherever applicable.	nd flow charts su	ich that the "‡"	* There sho is false.	ould be a state	ement saying that carrierSer	nseMode is false	e when deferenceMode

Proposed Response Resp

Response Status O

Proposed Response Response Status **O**

C/ 04A SC 4A.2.3.2.1	P 564	L11	# 148	C/ 04A SC 4A
Braga, Aldobino	UNH-IOL			Braga, Aldobino
Comment Type T	Comment Status D			Comment Type T
Figure 4A-3C - Control Flo BitReceiver process	W			Two occurrences "headerContents
The negative arc off of "re "receive a bit" block. Now				SuggestedRemedy Remove first inst
SuggestedRemedy				Proposed Response
Please place the arc befor	e the "receive a bit" block.			
Proposed Response	Response Status O			C/ 04A SC 4A
				Braga, Aldobino
C/ 04A SC 4A.2.5	P 566	L 43	# 154	Comment Type T
Braga, Aldobino	UNH-IOL			Two occurrences
Comment Type T	Comment Status D			"begin ComputePad := {
"BitTransmitter shall firs				dataField}
medium stabilization and s	synchronization, followed b	by the Start Fram	ne Delimiter."	end; {ComputePa
But in the Pascal Code I d	on't see:			SuggestedRemedy
"while currentTransmitBit?	< = lastHeaderBit do			Remove the first "begin
begin TransmitBit(outgoingHead	er [currentTransmitBit]):/t	ransmit header (ne hit at a time	ComputePad := {
currentTransmitBit :=curre			file bit at a time?	dataField}
end ;"				end; {ComputePa
SuggestedRemedy				Proposed Response
Either put the snippet of co put PhysicalSignalEncap t				
If you put PhysicalSignalE following changes:	ncap back into the docum	ent, you'll also ha	ave to make the	
Figure 4A-2, will need a P	hysicalSignalEncap block			

Annex 4A2.5, replace BitTransmitter with PhysicalSignalEncap Annex 4A.2.8 (edit BitTransmitter process, add a description, and add PhysicalSignalEncap procedure)

Proposed Response Response Status 0

0						
C/ 04A	SC 4A.	2.7.1	P 568 UNH-IOL	L 12	# 149	
Braga, Ald	ODINO		UNH-IUL			
Comment	Туре Т	Comm	nent Status D			
	ccurrences erContents	of: array [1heade:	erSize] of Bit)"			
Suggested	Remedy					
Remov	/e first inst	ance of "header	Contents: array	/[1headerSize] of E	Bit)"	
Proposed I	Response	Respor	nse Status O			
C/ 04A Braga, Ald	SC 4A.	2.7.1	P 571 UNH-IOL	L 17	# 150	
Comment		Comm	nent Status D			
Two od "begin Compu dataFie	ccurrences utePad := { eld}	of:		ze of arbitrary bits to	the MAC client	
Suggested	Remedy					
"begin		instance of:	(· · · · · · · · · · · · · · · · · · ·	7 19 19 19		
dataFi			y of size padSi	ze of arbitrary bits to	the MAC client	

nputePadParam}"

Response Status 0 ponse

			P802.3ah [Draft 3.1 Comments			
C/ 04A SC 4A.2.7.2 Braga, Aldobino	<i>P</i> 568 UNH-IOL	L 19	# 151	Cl 04A SC 4A.3.3 Braga, Aldobino	<i>Р</i> 578 UNH-IOL	L 28	# 155
	Comment Status D ate the prose from the code.			Comment Type T I don't think the defini when it sees it.	Comment Status D tion of carrierSense should be	changed. Only	what the MAC does
SuggestedRemedy Please place a new line This also occurs on: Pg. 569 line 43 Pg. 570 line 9 Pg. 570 line 31 Pg. 571 line 29 Pg. 571 line 41 Pg. 571 line 51 Pg. 572 line 11 Pg. 572 line 53 Pg. 573 line 52 Pg. 574 line 18 Pg. 574 line 38 Pg. 575 line 28 Proposed Response	e between the descriptive text	and the beginr	ing of the Pascal code.	SuggestedRemedy Please define a bit incopy verbatim the tex Replace "In half duple and Replace "In full duple Proposed Response CI 04A SC 4A.3.3 Kramer, Glen Comment Type T In full duplex mode of But it may encounter SuggestedRemedy	dicating when carrierSense is I t from Clause 4 with the follow ex mode," with "When carried x mode," with "When carried <i>Response Status</i> O <i>P</i> 578 Teknovus <i>Comment Status</i> D operation PHY does not enco congestion due to rate mismat	ing exceptions: erSenseMode is rSenseMode is s <i>L</i> 32 unter any conter ich, etc.	set to true," et to false," # <u>197</u> ntion (for the media).
C/ 04A SC 4A.2.8 Kramer, Glen	P 571 Teknovus	L 32	# 196	Proposed Response	Response Status O		Pa.ag.ap.)
a. Introduce variable 'd b. retain 'carrierSense'	Comment Status D at the January meeting had the eferenceMode' to enable/disa to allow PHY controlling the c it if the defernceMode is false, ill be ignored.	ble IPG enforce ongestion	ement in MAC				
while deferring do {Def	on should keep line 32 in Tran er to physical layer contention le should be used in process I	and IFS}	ement as it was before:				
	Wait(interFrameSpacing); {Ti ble IPG in MAC but still use c						
Proposed Response	Response Status O						

Cl 22 SC 1.4 James, David	4	P 21 JGG	<i>L</i> 1	# 99309	<i>CI</i> 22 Booth,
	TR Comm	ent Status R		D3.0 #734	Comm
Excessive capit with no apparen	alization. There is t pattern). This c	s no point in capita onfuses the parsin		nym (or many of them, ince defined words,	Su
	etc. are all capita manual clearly s		ot capitalized unl	ess proper nouns.	Sugge Mo
	number of these e been elevated		e past when atter	npting to resolve these	Mc to
Its easier for the		talization, provide n for me and/or oth		other clause editors. heir behalf.	De
SuggestedRemedy	0.11.00				de
22. Reconciliatio	on Sublayer (RS)	and Media Indepe	endent Interface (I	VIII)	Propos
	on sublayer (RS)	and media indepe	ndent interface (N	/II)	AC
Proposed Response REJECT.	e Respor	se Status U			la
Changing the tit	le of an existing o	lause is outside th	ne scope of P802.	3ah.	Th en
CI 22 SC 22	.2.4.1.12	P 23	L10	# 267	CI 22
Dawe, Piers		Agilent			Dawe,
Comment Type	r Comm	ent Status D			Comm
doesn't seem ar	ny need to say 'bi		s be written as ze	ecedent, but there ro,'. If the PHY won't attempt to write to bit	Th aft
a T.	e the effect of this	s comment is mere	ely editorial, but ju	st in case, I've made it	Sugge. Ch A r
SuggestedRemedy					Propos
				smit data from the	
	ent interface regates tablished, the PH		the PHY has dete	ermined that a valid	CI 22
			write a one to bit	0.5 shall be ignored.	Dawe,
Proposed Response	e Respor	se Status O			Comm
					Do
					Sugge
					Co Th

CI 22	SC 22.2.4.1.12	P 23	L 20	# 99310
Booth, Brad		Intel		

Comment Type TR Comment Status A D3.0 #747 Subclause is unclear and contains data that is either duplicated or belongs in another clause.

SuggestedRemedy

Move the last sentence of the last paragraph to be the last sentence of the first paragraph.

Move the second paragraph to proceed the first paragraph. Move MF42 & MF43 in PICS to proceed MF38 & MF39.

Delete the third paragraph and delete MF40 & MF41. This information should be in those respective clauses and repetition here just requires editing if another standards development wishes to use this bit.

Proposed Response Response Status U

ACCEPT IN PRINCIPLE.

I agree with all the moves.

The third paragraph was added to resolve a TR in WG ballot that expressed concern about enabling this capability without consideration of the ramifications.

Cl 22 Dawe, Piers	SC 22.2.4.	1.12	P 23 Agilent	L 27	# 268
Comment Ty This doe after'	•		t Status D nanagement ent	ity shall only set I	bit 0.5 to a logic on
SuggestedR Change A manag	to:	y shall set bit 0.	5 to a logic one	only after	
Proposed Re	sponse	Response	Status O		
<i>Cl</i> 22 Dawe, Piers	SC 22.2.4	1.12	P 23 Agilent	L 32	# 269
Comment Ty	vpe T		t Status D		
-	ave to spell	this out fully?			
Do we h SuggestedR Conside	e <i>medy</i> r extending	The default valu	ue of bit 0.5 is ze except for 1000E	ero.' to: BASE-PX-D, whe	re it is one.

C/ 22 SC 22.2.4.2.8 P L # Dawe, Piers Agilent	270	C/ 22 SC 2 Grow, Robert	22.7.3.4	P 27 Intel	L 22	# 409
Comment Type T Comment Status D This is a read-only status bit, we can't say it 'shall be set' to anything. Editorial in 66.1	al: note PMA	Comment Type MF43 through	E MF45 are	Comment Status D inconsistent on style.		
SuggestedRemedy Change to: A PHY shall return a value of zero in bit 1.7 if it is not a 100BASE-X PHY using and PCS specified in 66.1 or a 1000BASE-X PHY using the PCS specified in 6 Proposed Response Response Status 0		MF43: Feature MF44: Feature before disablin MF45: Feature	e/commen e = "Enable e = "Disabl ng OAM su e = "Unidire	t information to the value/c 9 Unidirectional mode", V/C e Unidirectional mode", V/C blayer when not part" ectional Ability", V/C= "Bit 1	= "Enable only v C= "Unidirectiona" .7=0 for all PHY	vhen" al mode is disabled
				MF 38 and MD39 are also a	advised.	
Cl 22 SC 22.2.4.2.8 P 25 L 9 # Thompson, Geoffrey Nortel	99311	Proposed Respon	se	Response Status O		
Comment Type TR Comment Status A	D3.0 #793	C/ 30 SC :	30	P 29	L5	# 637
Proposed text goes well beyond the allowed scope of the project. As worded it appear to allow "unidirectional ability" on legacy PHY types. This change could confusion and interoperability problems with conformat legacy networks. SuggestedRemedy		Dawe, Piers <i>Comment Type</i> 10Gb/s	E	Agilent Comment Status D		
appear to allow "unidirectional ability" on legacy PHY types. This change could confusion and interoperability problems with conformat legacy networks. SuggestedRemedy Limit the scope of this change to the PHY types being added by this clause that unidirectional ability. Require that the value of bit 1.7 will be zero for all other cutypes. Any WG action to add unidirectional ability to legacy PHY types should be done	d cause great at support current PHY	Comment Type	y annex 30/	Agilent Comment Status D		
 appear to allow "unidirectional ability" on legacy PHY types. This change could confusion and interoperability problems with conformat legacy networks. SuggestedRemedy Limit the scope of this change to the PHY types being added by this clause that unidirectional ability. Require that the value of bit 1.7 will be zero for all other contypes. Any WG action to add unidirectional ability to legacy PHY types should be done maintenance or a new project with the appropriate scope. 	d cause great at support current PHY	Comment Type 10Gb/s SuggestedRemed 10 Gb/s. Also	y annex 30/ se	Agilent Comment Status D	L1	# 397
appear to allow "unidirectional ability" on legacy PHY types. This change could confusion and interoperability problems with conformat legacy networks. SuggestedRemedy Limit the scope of this change to the PHY types being added by this clause tha unidirectional ability. Require that the value of bit 1.7 will be zero for all other clauses. Any WG action to add unidirectional ability to legacy PHY types should be done maintenance or a new project with the appropriate scope. Proposed Response Response Status U	d cause great at support current PHY ne through	Comment Type 10Gb/s SuggestedRemed 10 Gb/s. Also Proposed Respon Cl 30 SC : Law, David Comment Type	y annex 30/ se 30 E	Agilent Comment Status D A Response Status O P 30	L1	
appear to allow "unidirectional ability" on legacy PHY types. This change could confusion and interoperability problems with conformat legacy networks. SuggestedRemedy Limit the scope of this change to the PHY types being added by this clause that unidirectional ability. Require that the value of bit 1.7 will be zero for all other contrypes. Any WG action to add unidirectional ability to legacy PHY types should be done maintenance or a new project with the appropriate scope. Proposed Response Response Status U ACCEPT IN PRINCIPLE. "Bit 1.7 shall be set to 0 for all PHYs except the following: 100BASE-X using the	d cause great at support current PHY ne through	Comment Type 10Gb/s SuggestedRemed 10 Gb/s. Also Proposed Respon Cl 30 SC : Law, David Comment Type	y se 30 E dash with s	Agilent Comment Status D A Response Status O P30 3Com Comment Status D	L1	

C/ 30 SC 30 P38 L1 # 639 C/ 30 SC 30.11.1.1.11 P 59 L 31 # 244 Dawe. Piers Martin. David Nortel Networks Agilent Comment Type E Comment Status D Comment Type Comment Status D т The Flags field is present in every OAMPDU. This attribute should be updated according to Wrong dash type in table x--y (or maybe two dashes used) the last received OAMPDU of any code value. SugaestedRemedv SuggestedRemedv "This problem shows up in several places and affects references to figures as well as Change "received Local Information TLV" to "received OAMPDU" tables, so it looks like a template problem." Proposed Response Response Status 0 Also need to add the associated 'when updated etc' text. Add "This value is updated on reception of a valid frame, with (1) destinationField equal to the SC 30.1.2.1.1.3 P71 reserved multicast address for Slow Protocols specified in Table 43B-1, (2) lengthOrType C/ 30 L19 # 481 field value equal to the reserved Type for Slow Protocols as specified in Table 43B-2. (3) a Schneiderheinze, Burkart Infineon Technologies Slow Protocols subtype value equal to the subtype reserved for OAM as specified in Table Comment Type T Comment Status D 43B-3, (4) the OAM code equals one of the codes as specified in Table 57-4." loss of power also supported by 2BASE-TL no reason for removing SHDSL part Proposed Response Response Status 0 SuggestedRemedy remove limitation to 10PASS-TS C/ 30 SC 30.11.1.1.12 L 47 P 59 # 245 Proposed Response Response Status 0 Martin, David Nortel Networks Comment Type т Comment Status D C/ 30 SC 30.11.1.1.11 P59 L 23 # 24 Need to be a little more specific on where the Revision field is. Law. David 3Com SuggestedRemedy Change "Figure 57-10) of the most recently transmitted" to "Figure 57-10) in the Local Comment Type T Comment Status D Information TLV of the most recently transmitted" The attribute aOAMRemoteFlagsField needs rules for update added as it is a reception based attribute. Proposed Response Response Status **O** SuggestedRemedy Suggest the following test be added: # 246 C/ 30 SC 30.11.1.1.13 P60 L4 This value is updated on reception of a valid frame with (1) a destinationField equal to the Martin. David Nortel Networks reserved multicast address for Slow Protocols specified in Table 43B-1, (2) lengthOrType Comment Type **T** Comment Status D field value equal to the reserved Type for Slow_Protocols as specified in Table 43B-2, (3) a Slow Protocols subtype value equal to the subtype reserved for OAM as specified in Need to be a little more specific on where the Revision field is. Table 43B-3.: SuggestedRemedy Proposed Response Response Status O Change "Figure 57-10) of the most recently transmitted" to "Figure 57-10) in the Local Information TLV of the most recently transmitted"

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Proposed Response Response Status **O**

P802.3ah Draft 3.1 Comments C/ 30 SC 30.11.1.1.35 P66 L6 # 247 C/ 30 SC 30.11.1.1.39 P67 L19 # 248 Martin. David Nortel Networks Martin. David Nortel Networks Comment Type Е Comment Status D Comment Type Е Comment Status D Typo. Relocate third integer below the fourth to preserve same sequence as in c57. SuggestedRemedy SuggestedRemedy Change "Errored Symbol field" to "Errored Symbols field" Move line 19 for Errored Frames to below line 20 for Errored Frame Threshold and renumber. Proposed Response Response Status O Proposed Response Response Status **O** SC 30.11.1.1.38 P67 L6 # 599 C/ 30 C/ 30 SC 30.11.1.1.4 P57 L 26 # 598 Squire, Matt Hatteras Networks Squire, Matt Hatteras Networks Comment Status D Comment Type TR Comment Type т Comment Status D The configuration description doesn't match the event. It should say that it is measured over a given number of frames as in 57.5.3.3. C30 combines send_local_remote_1 and send_local_remote_2 from the discovery state machine into one state. These states have distinct meanings in the state diagram which SuggestedRemedy should be exposed. Change first paragraph in BEHAVIOR to: SuggestedRemedy The first integer is a four-octet value indicating the duration of the Errored Frame Period Break send local remote into 2 states in C30 (30.11.1.1.4) Event (see 57.5.3.3) window, in terms of the number of frames in the window. Rename the states in the discovery state machine to provide more meaningful monikers. Proposed Response Response Status O Suggestion: send_local_remote and send_local_remote_approved(?) Proposed Response Response Status **O** C/ 30 SC 30.11.1.1.39 P67 L11 # 25 Law, David 3Com C/ 30 SC 30.11.1.1.41 P67 L 5153 # 249 Comment Status D Comment Type т Martin, David Nortel Networks The third and fourth integers are in the wrong order. Comment Status D Comment Type Ε SuggestedRemedy Typo. The third and fourth integers should read: SuggestedRemedy Change the three occurrences of "Errored Frame Second..." to "Errored Frame Seconds..." The third INTEGER represents the Errored Frame Threshold field The fourth INTEGER represents the Errored Frames field Proposed Response Response Status 0 Proposed Response Response Status 0

P802.3ah Draft 3.1 Comments C/ 30 SC 30.11.1.1.42 P68 L11 # 26 C/ 30 SC 30.12.1.1.11 P73 L48 # 482 Law. David 3Com Schneiderheinze. Burkart Infineon Technologies Comment Type т Comment Status D Comment Type T Comment Status D cross reff points to local PME available register, there is no clause 45 register which The third and fourth integers are in the wrong order. reflects the Far End capabilities SuggestedRemedy SuggestedRemedv The third INTEGER represents the Errored Symbol Threshold field remove cross ref, add a note that this information can be provided by 'analyzing' the The fourth INTEGER represents the Errored Symbols field discovery process Proposed Response Response Status 0 Proposed Response Response Status 0 SC 30.11.1.1.42 P68 C/ 30 L19 # 250 C/ 30 SC 30.12.1.1.12 P74 L 8 # 483 Martin, David Nortel Networks Schneiderheinze. Burkart Infineon Technologies Comment Status D Comment Type E Comment Type T Comment Status D Move Errored Symbols line below the Errored Symbol Threshold line to preserve alignment cross ref points to local PME aggregate regsiter with c57. SuggestedRemedy SuggestedRemedy Move line 19 for Errored Symbols below line 20 for the Errored Symbol Threshold and reupdate cross ref to 45.2.6.7, add a note that this information is valid when programming of number. PME aggregation on all link is finished Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 30 SC 30.11.1.1.6 P57 L 54 # 641 C/ 30 SC 30.12.1.1.3 P71 L10 # 387 Beili, Edward Dawe, Piers Agilent Actelis Networks Comment Status D Comment Type E Comment Status D Comment Type т **Roque Capitals** Values of noPMEAssigned and noPeerPMEPresent are not defined clearly. SuggestedRemedy SuggestedRemedy Lots of them. Add some explanatory text (also make sure that clause 45 has matching definitions) e.g. noPMEAssigned means that PAF is enabled but Aggregation register is all zeros (no Proposed Response Response Status 0 modems assigned). Currently there's no limitation in the text that you have to have at least 1 bit set in the Aggregation. C/ 30 SC 30.12.1.1.10 P73 L 32 # 642 May be we should add that in. noPeerPMEPresent means that there was no answer during handshake initialization. It Dawe. Piers Aailent could also mean that the modem on the other end physically exists but was excluded from Comment Type E Comment Status D the aggregation as a result of Discovery (i.e. belongs to a different CPE already taken by another CO). aReomotePAFCapacity.; Proposed Response Response Status 0 SuggestedRemedy aRemotePAFCapacity.: Run the spell checker. Proposed Response Response Status 0

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C/ 30 SC 30.12.2.	.1.2 P74	L 40	# 484	C/ 30 SC 30.12.2.1.3 P74 L54	# 486
Schneiderheinze, Burkart			"	Schneiderheinze, Burkart Infineon Technologies	
Comment Type E Cross ref points to rer	Comment Status D mote PMESNRMgn			Comment Type T Comment Status D missing cross ref	
SuggestedRemedy update cross ref to 45	5.2.1.17 and add a respective	object for remote	SNR value	SuggestedRemedy point to 45.2.6.9	
Proposed Response	Response Status O			Proposed Response Response Status O	
C/ 30 SC 30.12.2 . _aw, David	1.3 <i>P</i> 3Com	L	# 38	CI 30 SC 30.12.2.1.3 P74 L 54 Dawe, Piers Agilent	# 281
Comment Type T Text is currently incor	Comment Status D mplete - reads '(see XREF).;'.			Comment Type E Comment Status D see XREF	
SuggestedRemedy Once TC coding viola	tions register is added, comple	ete this cross-ref	erence.	SuggestedRemedy see where?	
Proposed Response	Response Status O			Proposed Response Response Status O	
C/ 30 SC 30.12.2. Schneiderheinze, Burkart		L 47 Inologies	# 485	C/ 30 SC 30.12.2.1.4 P75 L1 Beili, Edward Actelis Networks	# 388
Comment Type T max count is 19530 p SuggestedRemedy update value Proposed Response	Comment Status D er second Response Status O			Comment TypeTRComment StatusDaProfileSelect for 2BaseTL is defined to support a max of 4 values simult be 6 (for each region), see 63A.4.Also pointers to 62A.3 and 63A.3 are given (with a wrong hyperlinks) insta and 63A.4 respectively.In addition to that 63A.3.7 defines only a single Complete Profile. Didn't w	ead of 62A.3.7
C/ 30 SC 30.12.2.	1.3 P74	L 48	# 643	Vancouver to have them defined? Finally note that writing a list of profiles for 2BaseTL would result (after a selection of a single profile or even none at all (on extremely long lines for reading operation would probably return a list of integers in the beginning then a single value (current operating profile) with no possibility to retrieve	r example). The (or N/A?) and
Dawe, Piers	Agilent			this what we want? Also value for failure is not specified.	e onginar list. Is
Comment Type E 10Mb/s	Comment Status D			SuggestedRemedy	
SuggestedRemedy 10 Mb/s				 Specify that aProfileSelect for 2BaseTL should support a max of 6 value Fix references and hyperlinks to 62A and 63A Define a list of Complete Profiles for 10PassTS (either in 62A [preferably Define a use for Define ProfileSelect for the second secon	-
Proposed Response	Response Status O			 Define a value for ProfileSelect failure May be we should have another attribute which would be read only: aOp 	eratingProfile
				Proposed Response Response Status O	

Comment Type T Comment Status D The number of profiles was augmented from 4 to 6 for 2Base-TL
SuggestedRemedyChange line 9 to : A 2BAse-TL supports a maximum of 6 values.Proposed ResponseResponse Status 0
Cl 30 SC 30.13 P75 L 24 # 22 Law, David 3Com Comment Type T Comment Status D
Move OMPEmulation managed object class to be 30.3.3, a subclause of DTE Management, as PHY device managed object class already is.
SuggestedRemedy Delete subclause 30.13. Renumber subclause 30.13.1 to be subclause 30.3.3 and renumber all subsequent subclauses as required. Proposed Response Response Status O
C/ 30 SC 30.13.1.1.5 P 76 L 30 # 644 Dawe, Piers Agilent Comment Type E Comment Status D
a OLT SuggestedRemedy an OLT Proposed Response Response Status O
Cl 30 SC 30.13.1.1.6 P76 L 42 # 645 Dawe, Piers Agilent Comment Type E Comment Status D Unwanted trailing) SuggestedRemedy Remove. Also on line 54.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Pag RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/

X 30 SC 30.2.2.1 P 32 L 1 # 99314 Yrow Pabert Intel	C/ 30 SC 30.2.2.		L 30	# 402
Comment Type TR Comment Status A D3.0 #537	Law, David Comment Type TR	3Com Comment Status D		
oMACControlFunctionEntity is not completly removed from 802.3-2002 by the changes of 802.3ah.		entire 30.2.2.1 text at draft D3.	.1 has introduced	a couple of errors:
SuggestedRemedy Remove reference in IEEE Std 802.3 Table 30-1c (pdf page 859, printed page 282) and		ect 'oPSEGroup' is missing. ect 'oMidSpanGroup' seems t	o have been adde	ed.
30A.4.1 pdf page 1063, printed page 486) requires redefinition of package.	SuggestedRemedy			
Proposed Response Response Status U	[1] Add the object 'oF	PSEGroup':		
ACCEPT IN PRINCIPLE. On further examination it appears that the only mention of the oPAUSEEntity object in	oPSEGroup The PSE Group man	aged object class is a view of	a collection of PS	SEs.
IEEE Std 802.3-2002 is in table 30-1c (page 834) and subclause 30.3.4. While the object	[2] Delete the object	'oMidSpanGroup'.		
name oMACControlFunctionEntity is not very descriptive of the attributes that it contains, the pause attributes, it will be far easier to preserve this object name than to change to oPAUSEEntity as this would impact the GDMO MIB in Annex 30A.	Proposed Response	Response Status O		
Based on this:	C/ 30 SC 30.2.2.	1 P33	L 39	# 377
		A stalia Nista	orko	
[1] Back out the changes that deleted oMACControlEunctionEntity and added	Beili, Edward	Actelis Netw	INKS	
 Back out the changes that deleted oMACControlFunctionEntity and added oPAUSEEntity. 	Beili, Edward Comment Type TR	Comment Status D	OIKS	
oPAUSEEntity.	Comment Type TR oTC is described as that "The PAF is loca		unction (PAF), wh	ile 61.1.4.1.3 states latching function and
oPAUSEEntity. Instead: [2] Change the text 'oPAUSEEntity managed object class (instance of	Comment Type TR oTC is described as	Comment Status D providing PME Aggregation Fi	unction (PAF), wh	ile 61.1.4.1.3 states latching function and
oPAUSEEntity.	Comment Type TR oTC is described as that "The PAF is loca the TC sublayer." SuggestedRemedy Replace oTC definition "oPAF - The oPAF r for PME Aggregation Replace "oTC" with "	Comment Status D providing PME Aggregation Fr ated in the PCS, between the I	unction (PAF), wh MAC-PHY Rate M s the managemer aged." /IE (page 33, line 3	latching function and
 oPAUSEEntity. Instead: [2] Change the text 'oPAUSEEntity managed object class (instance of oMACControlFunctionEntity) (30.3.4)' to simply read 'oMACControlFunctionEntity (30.3.4)' [3] Change the text 'This subclause formally defines the behaviours for the oPAUSEEntity managed object class attributes.' in subclause 30.3.4 'PAUSE entity managed object class' to read 'This subclause formally defines the behaviours for the oMACControlFunctionEntity 	Comment Type TR oTC is described as that "The PAF is loca the TC sublayer." SuggestedRemedy Replace oTC definition "oPAF - The oPAF r for PME Aggregation Replace "oTC" with "	Comment Status D providing PME Aggregation Fr ated in the PCS, between the I on with the following: managed object class provide Function sublayer to be mana oPAF" in the definition of oPM	unction (PAF), wh MAC-PHY Rate M s the managemer aged." /IE (page 33, line 3	latching function and
 oPAUSEEntity. Instead: [2] Change the text 'oPAUSEEntity managed object class (instance of oMACControlFunctionEntity) (30.3.4)' to simply read 'oMACControlFunctionEntity (30.3.4)' [3] Change the text 'This subclause formally defines the behaviours for the oPAUSEEntity managed object class attributes.' in subclause 30.3.4 'PAUSE entity managed object class' to read 'This subclause formally defines the behaviours for the oMACControlFunctionEntity 	Comment Type TR oTC is described as that "The PAF is loca the TC sublayer." SuggestedRemedy Replace oTC definition "oPAF - The oPAF r for PME Aggregation Replace "oTC" with " Replace "oTC" with "	Comment Status D providing PME Aggregation Fi ated in the PCS, between the I on with the following: managed object class provide in Function sublayer to be mana oPAF" in the definition of oPM oPAF" in Figure 30-3 and in T	unction (PAF), wh MAC-PHY Rate M s the managemer aged." /IE (page 33, line 3	latching function and
 oPAUSEEntity. Instead: [2] Change the text 'oPAUSEEntity managed object class (instance of oMACControlFunctionEntity) (30.3.4)' to simply read 'oMACControlFunctionEntity (30.3.4)' [3] Change the text 'This subclause formally defines the behaviours for the oPAUSEEntity managed object class attributes.' in subclause 30.3.4 'PAUSE entity managed object class' to read 'This subclause formally defines the behaviours for the oMACControlFunctionEntity 	Comment Type TR oTC is described as that "The PAF is loca the TC sublayer." SuggestedRemedy Replace oTC definition "oPAF - The oPAF for PME Aggregation Replace "oTC" with " Proposed Response C/ 30 SC 30.2.5	Comment Status D providing PME Aggregation Frated in the PCS, between the I on with the following: managed object class provide Function sublayer to be mana oPAF" in the definition of oPM oPAF" in Figure 30-3 and in T <i>Response Status</i> O P37 Agilent <i>Comment Status</i> D	unction (PAF), wh MAC-PHY Rate M s the managemer aged." /IE (page 33, line 7 able 30-5.	latching function and nt controls necessary 7).
 oPAUSEEntity. Instead: [2] Change the text 'oPAUSEEntity managed object class (instance of oMACControlFunctionEntity) (30.3.4)' to simply read 'oMACControlFunctionEntity (30.3.4)' [3] Change the text 'This subclause formally defines the behaviours for the oPAUSEEntity managed object class attributes.' in subclause 30.3.4 'PAUSE entity managed object class' to read 'This subclause formally defines the behaviours for the oMACControlFunctionEntity 	Comment Type TR oTC is described as that "The PAF is loca the TC sublayer." SuggestedRemedy Replace oTC definition "oPAF - The oPAF of for PME Aggregation Replace "oTC" with " Replace "oTC" with " Proposed Response C/ 30 SC 30.2.5 Dawe, Piers Comment Type E	Comment Status D providing PME Aggregation Frated in the PCS, between the I on with the following: managed object class provide Function sublayer to be mana oPAF" in the definition of oPM oPAF" in Figure 30-3 and in T <i>Response Status</i> O P37 Agilent <i>Comment Status</i> D	unction (PAF), wh MAC-PHY Rate M s the managemer aged." /IE (page 33, line 7 able 30-5.	latching function and nt controls necessary 7).

C/ 30 SC 30.2.5	P 38	L 15	# 278		30.3.5.1	P 44	L14	# 28
Dawe, Piers	Agilent			Law, David		3Com		
	Comment Status D Aggregation Capability packag t, relevant to just a few port typ		ndatory, as it is new,		tring MPCP in a	omment Status D II MPCP related attribut	es.	
uggestedRemedy Conditional?				SuggestedRemed Add the text '	•	initial 'a' to the followin	g attribute name:	S:
roposed Response	Response Status O			aTxGate aTxRegAck aTxRegister				
/ 30 SC 30.2.5	P 40	L 44	# 378	aTxRegRequ aTxReport	lest			
eili, Edward	Actelis Netwo	orks		aRxGate aRxRegAck				
omment Type TR	Comment Status D			aRxRegister				
shown to be a part of	pability is set as Mandatory. of PME Aggregation Capability v			aRxRegRequ aRxReport	lest			
a part of 10P/2B capa	adility.			Proposed Respor	nse Re	sponse Status O		
uggestedRemedy								
attributes of oPME to	CurrentStatus, aPAFSupporte be part of the 10P/2B Package	э.		C/ 30 SC Law, David	30.3.5.1.13	Р 47 3Com	L 42	# 31
	gation Capability (Mandatory)" est of the oPAF attributes there			Comment Type	T Co	omment Status D		
roposed Response	Response Status O					enting this counter.		
Toposed Response				SuggestedRemed		3 • • • • •		
X 30 SC 30.3.5.1	P 44	L 14	# 27	Add the cond	lition '(1) a desti	nationField equal to the umber the existing cond		
aw, David	3Com			Proposed Respor	nse Re	sponse Status O		
comment Type T	Comment Status D			- F F - F F - F -				
The attribute aMPCPI	is missing.			C/ 30 SC	30.3.5.1.14	P 48	L3	# 32
uggestedRemedy				Law, David		3Com		
Add the attribute aMP	CPID that reads as follows:			Comment Type	T Co	mment Status D		
aMPCPID				51	-	enting this counter.		
	-			SuggestedRemed				
APPROPRIATE SYN	IAX:					nationField equal to the	reserved multic	ast address for MAC
BEHAVIOUR DEFINE	ED AS:					umber the existing con		
	D is assigned so as to uniquel d objects of the containing obje		CP entity among the	Proposed Respon		sponse Status O	1	
Proposed Response	Response Status 0							

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 23 of 130

C/ 30 SC 30.3.5.1.14

C/ 30 SC 30.3.5.1.15 P48	L 19	# 33	Cl 30 SC 30.3.5.1.6 P45 L43 # 29
aw, David 3Com			Law, David 3Com
Comment Type T Comment Status D Missing condition for incrementing this counter.			Comment Type E Comment Status D Suggest changed wording to match similar attributes.
SuggestedRemedy Add the condition '(1) a destinationField equal to the Control specified in 31A', renumber the existing cond			SuggestedRemedy Change the text 'This counter is incremented when a MA_CONTROL.request' to read 'Increment counter by one when a MA_CONTROL.request'.
Proposed Response Response Status O			Proposed Response Response Status O
C/ 30 SC 30.3.5.1.16 P 48 Law, David 3Com	L 35	# 34	C/ 30 SC 30.3.5.1.6 P 45 L 47 # 396 Law, David 3Com
Comment Type T Comment Status D Missing condition for incrementing this counter.			Comment Type T Comment Status D Is an increment rate of 1 600 000 counts per second correct. Can these MAC Control frames really be generated at line rate.
SuggestedRemedy Add the condition '(1) a destinationField equal to the Control specified in 31A', renumber the existing cond			SuggestedRemedy Check what the real maximum rate is and update as required.
Proposed Response Response Status O			Also check rate for the attributes:
C/ 30 SC 30.3.5.1.17 P 48 Dawe, Piers Agilent	L 43	# 638	aMPCPMACCtrlFramesTransmitted aMPCPMACCtrlFramesReceived aTxGate
Comment Type E Comment Status D "Empty line, font of lines 45-47."			aTxRegAck aTxRegister aTxRegRequest aTxReport
SuggestedRemedy			aRxGate aRxRegAck aRxRegister
Proposed Response Response Status O			aRxRegRequest aRxReport
C/ 30 SC 30.3.5.1.17 P 48 Law, David 3Com	L 51	# 35	Proposed Response Response Status O
Comment Type T Comment Status D Missing condition for incrementing this counter.			
SuggestedRemedy Add the condition '(1) a destinationField equal to the Control specified in 31A', renumber the existing cond			
Proposed Response Response Status O			

CI 30	SC 30.3.5.1.7	P 46	5 L1	# 30
Law, David		3Com		
Comment T		Comment Status	-	
Sugges	st changed wordi	ng to match similar a	ttributes.	
valid fra	e the text 'This co	.' to read 'Increment		e function call returns a ReceiveFrame function
Proposed F	Response	Response Status	0	
CI 30	SC 30.5.114	P48	s L 10	# 99315
	ert	Intel		
Grow, Robe				
Grow, Robe				

aFECCorrectedBlocks and aFECUncorrectableBlocks are not consistent in either maximum increment rates or in specification of both 10 Mb/s and 1000 Mb/s

SuggestedRemedy

It seems like the Corrected and Uncorrectable counts should have the same maximum increment rate and applicability to same speeds.

Proposed Response Response Status U ACCEPT.

This was an incomplete edit.

C/ 30	SC 30.5.1.1.12	P 54	L 46	#	280	
Dawe, Piers		Agilent				

Comment Type T Comment Status D

I'm puzzled by this counter. It will count detectably errored code-groups within frames - I don't think it counts errored idles (not sure about errored /C/? We already have a FrameCheckSequenceErrors counter which will count once per errored frame (max approx 15000 bits on the line or 90000 for RPR). If we had more than one error per frame except very occasionally, the error rate (after any FEC) would be approx 10^5 or worse - we don't need to know how much worse.

Also this counter will miss many 4B/5B errors, as the 4B/5B code doesn't have very good error detection. It will miss some 8B/10B errors. But a total of the FCS check counter plus the other frame-oriented counters e.g. aAlignmentErrors will catch them. So for half-way usable or good links, aPCSCodingViolation will under-estimate the number of errors. Further, this counter will run up to silly numbers on a burst, masking any information about the quality of the link.

And it makes the management of different speeds more different than it need be, as this counter seems to apply to some but not all port types.

SuggestedRemedy

If this counter is needed for anything (maybe it is needed for 10P/2B?) then explain, and give a reference, and reconsider how it interacts with FEC. Also add a throttle, at least optionally: could say that counting one for any block of 1000 octets is acceptable (SONET uses block checking), as is ignoring up to 1000 octets after an error (ESCON uses this blanking method).

If the counter is not needed, get rid of it.

Proposed Response Response Status **O**

C/ 30	SC 30.5.1.1.12	P 54	L 46	# 23
Law, David		3Com		

Comment Type TR Comment Status D

The attribute aPCSCodingViolation should be moved from the MAU to the PHYEntity as it is now part of the RS.

SC 30.5.1.1.12

SuggestedRemedy

Move the attribute aPCSCodingViolation to be in the PHYEntity.

Proposed Response Response Status **O**

Dawe, Piers Agilent	C/ 30 SC 30.5.1.1.2 P 52 L 15 # 479 Schneiderheinze, Burkart Infineon Technologies
Comment Type E Comment Status D Rogue capital	Comment Type T Comment Status D link to MAU type to register defined in clause 45 in case of 2BASE-TL/10PASS-TS missir
SuggestedRemedy Forward s/b forward	SuggestedRemedy add link to 45.2.1.1 (PMA/PMD) and to 45.2.3.1 (PCS) for 10PASS/2BASE
Proposed Response Response Status O	Proposed Response Response Status O
C/ 30 SC 30.5.1.1.15 P 55 L 50 # 36 Law, David 3Com	C/ 30 SC 30.5.1.1.4 P 52 L 40 # 597 Squire, Matt Hatteras Networks
Comment Type TR Comment Status D This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC corrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were	Comment Type TR Comment Status D We added a "available reduced" state to the aMediaAvailable, but I don't see how to interpret it.
SuggestedRemedy [1] Change the text 'For 10PASS-TS and 1000BASE-PX PHYs, a count of corrected' to read 'For 1000BASE-PX PHYs, a count of corrected'.	thru handshaking so that the discovery process completed and the discovery registers exchanged. If it was up, once you get a link fault, you don't know that the discovery information for that PME is valid any more, so you can't just say that group is operating a reduced especial to the DME more here here here the second especial to the DME up and the second especial to the second especial to the DME up and th
[2] Remove the text relating to increment rate for 10Mb/s. Proposed Response Response Status O	reduced capacity - that PME may have been reassigned. And if the PME was never up, then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced".
Proposed Response Response Status O	then you don't know which aggregate group it should belong to, and you can't determine
Proposed Response Response Status O C/ 30 SC 30.5.1.1.16 P L # 37	then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called
Proposed Response Response Status O Cl 30 SC 30.5.1.1.16 P L # 37 Law, David 3Com Comment Type TR Comment Status D	then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either.
Proposed Response Response Status O Cl 30 SC 30.5.1.1.16 P L # 37 Law, David 3Com 3Com 3Com Comment Type TR Comment Status D This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute	 then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. SuggestedRemedy Eliminate "available_reduced" or clarify how it works given the dynamic/discovered
Proposed Response Response Status O C/ 30 SC 30.5.1.1.16 P L # 37 aw, David 3Com 3Com This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it.	 then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. SuggestedRemedy Eliminate "available_reduced" or clarify how it works given the dynamic/discovered relationship between PMEs and their aggregates.
Proposed Response Response Status O Cl 30 SC 30.5.1.1.16 P L # 37 aw, David 3Com 3Com 3Comment Type TR Comment Status D This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it. SuggestedRemedy	then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. <i>SuggestedRemedy</i> Eliminate "available_reduced" or clarify how it works given the dynamic/discovered relationship between PMEs and their aggregates. <i>Proposed Response</i> <i>Response Status</i> O
Proposed Response Response Status O Cl 30 SC 30.5.1.1.16 P L # 37 aw, David 3Com 3Com This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it.	then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. SuggestedRemedy Eliminate "available_reduced" or clarify how it works given the dynamic/discovered relationship between PMEs and their aggregates. Proposed Response Response Status O C/ 30 SC 30.5.1.1.4 P53 L43 # 480 Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D not clear how the other enumeration types which are not covered by this paragraph map
Proposed Response Response Status O Cl 30 SC 30.5.1.1.16 P L # 37 Law, David 3Com 3Com 3Com Comment Type TR Comment Status D This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it. SuggestedRemedy [1] Change the text 'For 10PASS-TS and 1000BASE-PX PHYs, a count of uncorrected'. [2] Remove the text relating to increment rate for 10Mb/s.	then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. <i>SuggestedRemedy</i> Eliminate "available_reduced" or clarify how it works given the dynamic/discovered relationship between PMEs and their aggregates. <i>Proposed Response</i> Response Status O <i>Cl</i> 30 SC 30.5.1.1.4 <i>P</i> 53 <i>L</i> 43 # 480 Schneiderheinze, Burkart Infineon Technologies <i>Comment Type</i> E <i>Comment Status</i> D not clear how the other enumeration types which are not covered by this paragraph map (i.e. PCS link fault, remote fault,)
Proposed Response Response Status O 2/ 30 SC 30.5.1.1.16 P L # 37 aw, David 3Com 3Com 3Com 3Com Comment Type TR Comment Status D This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it. SuggestedRemedy [1] Change the text 'For 10PASS-TS and 1000BASE-PX PHYs, a count of uncorrected'. [2] Remove the text relating to increment rate for 10Mb/s.	then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. <i>SuggestedRemedy</i> Eliminate "available_reduced" or clarify how it works given the dynamic/discovered relationship between PMEs and their aggregates. <i>Proposed Response</i> Response Status O <i>Cl</i> 30 SC 30.5.1.1.4 <i>P</i> 53 <i>L</i> 43 # 480 Schneiderheinze, Burkart Infineon Technologies <i>Comment Type</i> E <i>Comment Status</i> D not clear how the other enumeration types which are not covered by this paragraph map (i.e. PCS link fault, remote fault,) <i>SuggestedRemedy</i>
Proposed Response Response Status O Cl 30 SC 30.5.1.1.16 P L # 37 Law, David 3Com 3Com 3Com Comment Type TR Comment Status D This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it. SuggestedRemedy [1] Change the text 'For 10PASS-TS and 1000BASE-PX PHYs, a count of uncorrected'. [2] Remove the text relating to increment rate for 10Mb/s.	<pre>then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced". I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. SuggestedRemedy Eliminate "available_reduced" or clarify how it works given the dynamic/discovered relationship between PMEs and their aggregates. Proposed Response Response Status O Cl 30 SC 30.5.1.1.4 P53 L43 # 480 Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D not clear how the other enumeration types which are not covered by this paragraph map (i.e. PCS link fault, remote fault,)</pre>

			F 002.3an L				
C/ 30 SC 30.5.1.1.6 Dawe, Piers	6 P 54 Agilent	L 28	# 271	C/ 30 SC 30.5.1 Dawe, Piers	.3.1 P 54 Agilent	L 32	# 273
	Comment Status D s meant: 'Note that this coun and MAUs.' As opposed to d			Comment Type E This subclause is of SuggestedRemedy	Comment Status D ut of place. It should be on p56	6, after 30.5.1.1.16	6
SuggestedRemedy Change to: Note that this counter v And see editorial comm	vill increment for 10 Mb/s bas	seband and broad	dband MAUs only.	Please move it. Proposed Response	Response Status 0		
Proposed Response	Response Status O			C/ 30 SC 31.12 . Beck, Michael	2.1.3 P74 Alcatel Bell	L 54	# 198
C/ 30 SC 30.5.1.1.6 Dawe, Piers	5 P 54 Agilent	L 28	# 272	Comment Type E Missing cross-refere	Comment Status D		
broadband MAUs.' 1. Needs space betw 2. It would be better t	o clarify exactly which 10 Mb y name: 10BASE5, 10BASE	/s MAUs are and	aren't affected. Either	Cross-reference sho Proposed Response	ould be: "10P/2B TC encapsula Response Status 0 30-1b P 37	L 5	# 395
SuggestedRemedy				Law, David	3Com		
Change to: Note that this counter v for 10PASS-TS). Proposed Response	vill increment for 10 Mb/s bas Response Status 0	seband and broad	dband MAUs only (not	30-1a, 30-1b, 30-1c "100/1000 Mb/s Mo	Comment Status D on found on Page 48 of IEEE S on 30-1d, and 30-1e, change the nitor Capability (Optional)" to re been implemented in the excel	DTE and MAU c ad "PHY Error M	olumn heading onitor Capability
C/ 30 SC 30.5.1.1.6 Dawe, Piers	5 P54 Agilent	L 28	# 276	Note - It seem this i	nstruction wasn't carried out in ither which may have lead to th		30-1b shown in IEEE
Comment Type T	Comment Status D			SuggestedRemedy	·		
initializing, this bit shall Indicating (receive) link be in receive-link-down	s meant: 'While a 10PASS-T also indicate link down (see down is what it does anywa state when initializing even tate during initialization as we	45.2.1.12).' In a y. I think the inte if the receive link	ddition to what? nt is that the bit should is up. Or it might be	[1] A change should change the DTE col "PHY Error Monitor	I be added that states 'In Table lumn heading '100/1000 Mb/s M Capability (optional)" n heading '100/1000 Mb/s Moni	Ionitor Capability	(optional)" to read
SuggestedRemedy	-				shown be change to read "PHY		
Delete 'also', insert 'rec	eive'.			Proposed Response	Response Status 0		
Proposed Response	Response Status O						

C/ 30A SC 30A.20.	-	L 17	# 400	C/ 31A SC	<i>P</i> 181	L 23	# 194
.aw, David	3Com			Kramer, Glen	Teknovus		
Comment Type T	Comment Status D			Comment Type T	Comment Status D		
oamLocalErrFrameSe	es 'aOAMLocalErrFrameConfig' ecsConfig(266)' and the behavi	iour '(No Suggest	ions) the arc to be	Table 31A-3:			
named ' oamLocalE	ErrFrameConfig(266)' and the b	ehaviour 'bOAML	.ocalErrFrameConfig;'.	Text in the Interpretation of	column is inaccurate and a	mbiguous.	
SuggestedRemedy				SuggestedRemedy Use the following descript	on		
Proposed Response	Response Status O			start: Time when transmis length: Interval of time dur arrive: Indicates that a gra	sion should be initiated ing which transmission is a		ctivation
C/ 30A SC 30A.8.1 Law, David	I P 144 3Com	L13	# 399	Proposed Response	Response Status O		
0	Comment Status D e 30A.8.1 and 30A.8.2 proceed	d changes to 30A	4.2.	C/ 31A SC Kramer, Glen	P 181 Teknovus	L 32	# 193
SuggestedRemedy Re-order these chang	ges so that the changes to 30A	.4.2 come first.		Comment Type T Table 31A-3:	Comment Status D		
Proposed Response	Response Status O			Table 31A-3.			
				description of force_report	t is inaccurate.		
		1	" [200	"The OLT surrests the ON			
C/ 30B SC 30B Dawe, Piers	P 176 Agilent	L	# 302	following this indication."	U to generate a REPORT	at the next trans	mission opportunity
		L	# <u>302</u>	following this indication." When GATE message is r including any grant with fo	eceived, each grant is indi rce_report=true. However,	icated to the MA	C Control client,
Dawe, Piers Comment Type E Subscribe	Agilent	L	# <u>302</u>	following this indication." When GATE message is r including any grant with fo opportunities before this g	eceived, each grant is indi rce_report=true. However,	icated to the MA	C Control client,
Dawe, Piers Comment Type E Subscribe	Agilent	L	# [302	following this indication." When GATE message is r including any grant with fo opportunities before this g SuggestedRemedy	received, each grant is indi rce_report=true. However, rant becomes active.	icated to the MA , there may be m	C Control client, any transmission
awe, Piers <i>Comment Type</i> E Subscribe <i>Subscriber</i> Subscriber	Agilent	L	# <u>1302</u>	following this indication." When GATE message is r including any grant with fo opportunities before this g	received, each grant is indi rce_report=true. However, rant becomes active. U to transmit a REPORT n	icated to the MA , there may be m	C Control client, any transmission
Dawe, Piers Comment Type E Subscribe SuggestedRemedy	Agilent Comment Status D	L	# [302	following this indication." When GATE message is r including any grant with fo opportunities before this g SuggestedRemedy "The OLT expects the ON	eceived, each grant is indi rce_report=true. However, rant becomes active. U to transmit a REPORT n rt and length fields."	icated to the MA , there may be m nessgae during t	C Control client, any transmission

C/ 31A SC Kramer, Glen	P 182 Teknovus	L14	# 195	C/ 31A SC 31A Dawe, Piers	P 182 Agilent	L 50	# 304
Comment Type T Text "Indicates amount and ambiguous.	Comment Status D t or pending transmission in th	e corresponding	queue" is confusing	Comment Type E is a requested ? SuggestedRemedy	Comment Status D		
SuggestedRemedy Use the following text					en requested? Also font size Response Status 0	in central colum	n.
"Indicates amount of data transmission overhead	ata waiting in the correspondir "	ng queue includii	ng the associated	 			
Proposed Response	Response Status 0			C/ 43B SC 43B Dawe, Piers	P 185 Agilent	L 56	# 654
C/ 31A SC 31A Dawe, Piers	P 180 Agilent	L18	# 279	Comment Type E Wrong year SuggestedRemedy	Comment Status D		
	Comment Status D ode inhibit the use of PAUSE? transmitting frames, or the O/		t may? Does 'non-	s/b 2004 Proposed Response	Response Status O		
	31A-1 exclude OAM frames of		mes? Table 31A-2				
mentions 'data frames' SuggestedRemedy			mes? Table 31A-2	<i>Cl</i> 45 <i>SC</i> 45 Law, David	Р 79 3Com	L1	# 403
mentions 'data frames' SuggestedRemedy 57.1.5.3 seems clearer	31A-1 exclude OAM frames of - should the terminology be a		mes? Table 31A-2	Law, David Comment Type TR			
mentions 'data frames' SuggestedRemedy 57.1.5.3 seems clearer Proposed Response	31A-1 exclude OAM frames of - should the terminology be a r. If it's right, clarify 31A?		mes? Table 31A-2 # <mark>303</mark>	Law, David Comment Type TR Please add a register	3Com Comment Status D	tatus attribute (30).12.1.1.3).
mentions 'data frames' SuggestedRemedy 57.1.5.3 seems clearer Proposed Response C/ 31A SC 31A Dawe, Piers Comment Type T Grammar	31A-1 exclude OAM frames of - should the terminology be a r. If it's right, clarify 31A? <i>Response Status</i> O <i>P</i> 181	ligned?		Law, David <i>Comment Type</i> TR Please add a register As part of this clarifica be clarified. 'no PMEAssigned' Does it mean that the	3Com Comment Status D to support the aPHYCurrentSt	tatus attribute (30 gned' and 'noPee es it mean that the	0.12.1.1.3). erPMEPresent' should e PME Aggregation
mentions 'data frames' SuggestedRemedy 57.1.5.3 seems clearer Proposed Response Cl 31A SC 31A Dawe, Piers Comment Type T Grammar	31A-1 exclude OAM frames of - should the terminology be a r. If it's right, clarify 31A? <i>Response Status</i> O <i>P</i> 181 Agilent <i>Comment Status</i> D	ligned?		Law, David <i>Comment Type</i> TR Please add a register As part of this clarifica be clarified. 'no PMEAssigned' Does it mean that the register has just 1 bit s	3Com Comment Status D to support the aPHYCurrentSt ation of the value 'no PMEAssig physical layer is not up or doe	tatus attribute (30 gned' and 'noPee es it mean that the	0.12.1.1.3). erPMEPresent' should e PME Aggregation
mentions 'data frames' SuggestedRemedy 57.1.5.3 seems clearer Proposed Response Cl 31A SC 31A Dawe, Piers Comment Type T Grammar SuggestedRemedy Change 'was' to 'has b	31A-1 exclude OAM frames of - should the terminology be a r. If it's right, clarify 31A? <i>Response Status</i> O <i>P</i> 181 Agilent <i>Comment Status</i> D	ligned?		Law, David <i>Comment Type</i> TR Please add a register As part of this clarification be clarified. 'no PMEAssigned' Does it mean that the register has just 1 bit is something else? 'noPeerPMEPresent' Again, it is not clear to that the remote TC is	3Com Comment Status D to support the aPHYCurrentSt ation of the value 'no PMEAssig physical layer is not up or doe	tatus attribute (30 gned' and 'noPee es it mean that the t set (no PAF) or , is it that the phy ded to use some	0.12.1.1.3). erPMEPresent' should e PME Aggregation does it relate to vsical link is not up, PMD parameter or is
mentions 'data frames' SuggestedRemedy 57.1.5.3 seems cleared Proposed Response Cl 31A SC 31A Dawe, Piers Comment Type T Grammar SuggestedRemedy	31A-1 exclude OAM frames of - should the terminology be a r. If it's right, clarify 31A? <i>Response Status</i> O <i>P</i> 181 Agilent <i>Comment Status</i> D een'.	ligned?		Law, David Comment Type TR Please add a register As part of this clarifica be clarified. 'no PMEAssigned' Does it mean that the register has just 1 bit s something else? 'noPeerPMEPresent' Again, it is not clear to that the remote TC is the result of the discord	3Com <i>Comment Status</i> D to support the aPHYCurrentSt ation of the value 'no PMEAssign physical layer is not up or does set with the PAF enable bit not o what condition this relates to, not synchronized or is it intend	tatus attribute (30 gned' and 'noPee es it mean that the t set (no PAF) or , is it that the phy ded to use some	0.12.1.1.3). erPMEPresent' should e PME Aggregation does it relate to vsical link is not up, PMD parameter or is

C/ 45 SC 45 P79 L6 # 646 C/ 45 SC 45 P80 L11 # 274 Dawe, Piers Dawe, Piers Agilent Agilent Comment Status D Comment Type E Comment Status D Comment Type E Draft 4.0 of IEEE P802.3ak? Need space between 1000 and Mb/s SuggestedRemedy SugaestedRemedv s/b at least draft 5.3 Insert space Proposed Response Response Status 0 Proposed Response Response Status **O** C/ 45 SC 45 P79 L6 # 647 C/ 45 SC 45.1 P80 L11 # 648 Dawe, Piers Dawe, Piers Agilent Agilent Comment Type Е Comment Status D Comment Type Е Comment Status D 1000Mb/s 10Gb/s SuggestedRemedy SuggestedRemedy 10 Gb/s 1000 Mb/s Proposed Response Response Status 0 Proposed Response Response Status **O** C/ 45 SC 45 P80 L1 # 39 C/ 45 SC 45.1 P80 L11 # 282 Law. David 3Com Dawe. Piers Aailent Comment Status D Comment Type Comment Status D Comment Type TR Е The TC coding violations register is missing. In subclause 61.3.3.7.2 'Receive state Missing space diagram', the specific text reads: SuggestedRemedy 1000 Mb/s TC coding error when this signal is asserted, the Coding violation counter register is incremented (see Proposed Response Response Status 0 45.2.3.17). The default value of this variable is FALSE; it returns to FALSE on every state transition. Unfortunately when I look at 45.2.3.17 it is the '10P/2B capability register' so this seems to C/ 45 SC 45.2 P80 L 50 # 609 be broken. A search of Clause 45 for the 'Coding violation counter' referenced in subclause Law, David 3Com 61.3.3.7.2 didn't report anything, nor do a search of Clause 45 for a counter that looked like Comment Type т Comment Status D it might be the Coding violation counter. Change "..the register contents.." to "..contents of the register pair.." SuggestedRemedy Add the TC coding violations counter to Clause 45. Comment from Ed Turner. Response Status 0 Proposed Response SuggestedRemedy

P802.3ah Draft 3.1 Comments

Proposed Response Re

Response Status 0

CI 45 SC 45.2 P82 L7 # 83	CI 45 SC 45.2.1.1 P85 L32 # 275
Law, David 3Com	Dawe, Piers Agilent
Comment Type E Comment Status D The hash symbol should not be used.	Comment TypeEComment StatusDWhat's gone wrong here?The footnote in 802.3ae is right, what's here doesn't apply.
[Comment provided by Edward Turner] SuggestedRemedy Replace with "number".	SuggestedRemedy Footnote should be: R/W = Read/Write, SC = Self Clearing
Proposed Response Response Status O	Proposed Response Response Status O
C/ 45 SC 45.2.1 P L # 254	C/45SC45.2.1.11P 87L 21#431Schneiderheinze, BurkartInfineon Technologies
Squire, Matt Hatteras Networks Comment Type TR Comment Status D	Comment Type E Comment Status D SC = Self Clearing defined but not used
There's an XREF for the TPS-TC coding violations in 30.12.2.1.3. Basically, I think the variable is missing from C45, 45.2.1	SuggestedRemedy
SuggestedRemedy	
Add a per-PME TPS-TC coding violation counter to C45, and correct the reference.	Proposed Response Response Status O
Proposed Response Response Status O Cl 45 SC 45.2.1 P76 L 33 # 99327	C/ 45 SC 45.2.1.11.1 P86 L40 # 492 Schneiderheinze, Burkart Infineon Technologies
Proposed Response Response Status O CI 45 SC 45.2.1 P76 L 33 # 99327 Grow, Robert Intel	Cl 45 SC 45.2.1.11.1 P86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D
Proposed Response Response Status O Cl 45 SC 45.2.1 P76 L 33 # 99327 Grow, Robert Intel 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status	C/ 45 SC 45.2.1.11.1 P86 L40 # 492 Schneiderheinze, Burkart Infineon Technologies
Proposed Response Response Status O Cl 45 SC 45.2.1 P 76 L 33 # 99327 Grow, Robert Intel Intel 0 D3.0 #555 Comment Type TR Comment Status A 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. SuggestedRemedy	Cl 45 SC 45.2.1.11.1 P 86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Currently there is no mechanism defined for clearing down (NACK(CD)a g.994.1 session SuggestedRemedy
Proposed Response Response Status O Cl 45 SC 45.2.1 P76 L 33 # 99327 Grow, Robert Intel Intel 0 D3.0 #555 Comment Type TR Comment Status A 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. SuggestedRemedy Separate the control and status bits into different registers for all new registers.	Cl 45 SC 45.2.1.11.1 P 86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Currently there is no mechanism defined for clearing down (NACK(CD)a g.994.1 session SuggestedRemedy define an appropriate bit Clear Down in 10P/2BPMD control register Proposed Response Response Status O
Proposed Response Response Status O Cl 45 SC 45.2.1 P76 L 33 # 99327 Grow, Robert Intel Intel 0 D3.0 #555 Comment Type TR Comment Status A 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. SuggestedRemedy SuggestedRemedy Separate the control and status bits into different registers for all new registers.	Cl 45 SC 45.2.1.11.1 P 86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Currently there is no mechanism defined for clearing down (NACK(CD)a g.994.1 session SuggestedRemedy define an appropriate bit Clear Down in 10P/2BPMD control register Proposed Response Response Status O
Proposed Response Response Status O Cl 45 SC 45.2.1 P76 L 33 # 99327 Grow, Robert Intel Intel 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. 0 D3.0 #555 SuggestedRemedy Separate the control and status bits into different registers for all new registers. Proposed Response Response Status U	Cl 45 SC 45.2.1.11.1 P 86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Currently there is no mechanism defined for clearing down (NACK(CD)a g.994.1 session SuggestedRemedy define an appropriate bit Clear Down in 10P/2BPMD control register Proposed Response Response Status O Cl 45 SC 45.2.1.11.1 P 86 L 47 # 40
Proposed Response Response Status O Cl 45 SC 45.2.1 P76 L 33 # 99327 Grow, Robert Intel Intel 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. 0 D3.0 #555 SuggestedRemedy Separate the control and status bits into different registers for all new registers. Proposed Response Response Status U	Cl 45 SC 45.2.1.11.1 P86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Currently there is no mechanism defined for clearing down (NACK(CD)a g.994.1 session SuggestedRemedy define an appropriate bit Clear Down in 10P/2BPMD control register Proposed Response Response Status O Cl 45 SC 45.2.1.11.1 P86 L 47 # 40 Law, David 3Com Comment Type T Comment Status D
Proposed Response Response Status O Cl 45 SC 45.2.1 P76 L 33 # 99327 Grow, Robert Intel Intel 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. 0 D3.0 #555 SuggestedRemedy Separate the control and status bits into different registers for all new registers. Proposed Response Response Status U	Cl 45 SC 45.2.1.11.1 P86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Currently there is no mechanism defined for clearing down (NACK(CD)a g.994.1 sessic SuggestedRemedy define an appropriate bit Clear Down in 10P/2BPMD control register Proposed Response Response Status O Cl 45 SC 45.2.1.11.1 P86 L 47 # 40 Law, David 3Com Comment Type T Comment Status D No PICS entry for the first "shall". [Comment provided by Edward Turner] SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy
Proposed Response Response Status O Cl 45 SC 45.2.1 P 76 L 33 # 99327 Grow, Robert Intel Intel 0 D3.0 #555 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. SuggestedRemedy SuggestedRemedy Separate the control and status bits into different registers for all new registers. Proposed Response Response Status U	Cl 45 SC 45.2.1.11.1 P86 L 40 # 492 Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Currently there is no mechanism defined for clearing down (NACK(CD)a g.994.1 session SuggestedRemedy define an appropriate bit Clear Down in 10P/2BPMD control register Proposed Response Response Status O Cl 45 SC 45.2.1.11.1 P86 L 47 # 40 Law, David 3Com Comment Type T Comment Status D No PICS entry for the first "shall". [Comment provided by Edward Turner] Laward Turner] Laward Turner]

		FOUZ.Sali D	ratt 3.1 Comments
C/ 45 SC 45.2.1.11.1 P 86 Dawe, Piers Agilent	L 48	# 283	C/ 45 SC 45.2.1.11.3 P 87 L 28 # 6 Law, David 3Com 3
Comment Type T Comment Status D			Comment Type T Comment Status D
Ambiguous: is this sentence 'Upon MMD reset, this to the MMD's implementer or its user (the STA)?			The table says that "silence time" is measured in seconds. It would be helpful if the description text also said this.
SuggestedRemedy Please clarify.			[Comment provided by Edward Turner]
,			SuggestedRemedy
Proposed Response Response Status O			Add "(in seconds)" between "time" and "is" at the end of the line.
			Proposed Response Response Status O
Cl 45 SC 45.2.1.11.1 P 86 Law, David 3Com	L 48	# 41	
Comment Type T Comment Status D			C/ 45 SC 45.2.1.11.4 P 87 L 37 # 84 Law, David 3Com
No PICS entry for the "shall". [Comment provided by Edward Turner]			Comment Type E Comment Status D The statement "is a traffic disruptive operation" sounds awkward.
SuggestedRemedy			[Comment provided by Edward Turner]
Add a PICS entry for the shall statement.			SuggestedRemedy
Proposed Response Response Status O			Replace with "may corrupt the data on the link"
			Proposed Response Response Status O
Cl 45 SC 45.2.1.11.2 P 86 Dawe, Piers Agilent	L 53	# 284	
Comment Type E Comment Status D			C/ 45 SC 45.2.1.11.4 P 87 L 38 # 285 Dawe, Piers Agilent
only in the wrong place SuggestedRemedy			Comment Type E Comment Status D Missing .
Change to 'Writing to this bit is valid only when'			SuggestedRemedy
Proposed Response Response Status O			Add . Also in 45.2.1.18, 45.2.1.21, 45.2.1.22, 45.2.1.26, 45.2.1.41, 45.2.1.42, 45.2.1.43, 45.2.3.17.2, more.
C/ 45 SC 45.2.1.11.2 P86 Dawe, Piers Agilent	L 54	# 649	Proposed Response Response Status O
Comment Type E Comment Status D Down			
SuggestedRemedy down			
Proposed Response Response Status O			

P802.3ah Draft 3.1 Comments C/ 45 SC 45.2.1.11.5 P87 L 42 # 70 C/ 45 SC 45.2.1.12 P88 L16 # 290 Dawe, Piers Law. David 3Com Agilent Comment Status D Comment Type т Comment Status D Comment Type Е Correct '7' to be '6'. K = 1024SuggestedRemedy [Comment provided by Edward Turner] kb/s SuggestedRemedy Proposed Response Response Status **O** See comment. Response Status 0 Proposed Response C/ 45 SC 45.2.1.13 P89 L 40 # 490 Schneiderheinze, Burkart Infineon Technologies C/ 45 SC 45.2.1.11.5 P87 L 51 # 424 Comment Type T Comment Status D Barry, O'Mahony Intel 2BASE also provides CRC counter register Comment Type E Comment Status D SuggestedRemedy missing word "be" also provides useful information add CRC counter register for local and link partner SuggestedRemedy Response Status 0 Proposed Response Change "may set" to "may be set" Proposed Response Response Status 0 C/ 45 SC 45.2.1.13 P89 L49 # 613 Law. David 3Com P87 L 54 C/ 45 SC 45.2.1.11.5 # 425 Comment Type E Comment Status D Barry, O'Mahony Intel Change "send" to "sent" Comment Status D Comment Type E Last sentence leaves behavoir of PHY's ambiguous in some instances. Comment from Ed Turner. SuggestedRemedy SuggestedRemedy Change from: "If the "-R" is not capable of the "preferred" mode, the "-R" Proposed Response Response Status 0 may behave as 10PASS-TS or 2BASE-TL respectively." to: "If the "-R" is not capable of the "preferred" mode, the "-R" C/ 45 SC 45.2.1.13 is set to 10PASS-TS or 2BASE-TL respectively." P 89 L 52 # 293 Dawe, Piers Agilent Proposed Response Response Status 0 Comment Type E Comment Status D only defined. Not what? used? SuggestedRemedy Change this and its several clones to: This register is defined for "-O" port sub-types only. Proposed Response Response Status 0

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			i oozioan b				
C/ 45 SC 45.2.1.1 Schneiderheinze, Burkart	3 P 89 Infineon Tech	L 54 nologies	# 491	C/ 45 SC 45.2.1.1 Law, David	3.1 <i>P</i> 90 3Com	L18	# 113
reset? SuggestedRemedy	Comment Status D ner register 'react' on a read a haviour of Link Partner registe	-		SuggestedRemedy Change 'one, the PH	Comment Status D be clarified. [Comment provide IY updates all link partner' to		-
exactly the same as fo				partner'	Doononoo Statua		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 45 SC 45.2.1.1 ; _aw, David	3 P 89 3Com	L 7	# 111	C/ 45 SC 45.2.1.1 Law, David	3.1 P 90 3Com	L 20	# 65
Comment Type E It may be useful to add	Comment Status D d'('-O' PHY only)' to the subse adings that are for the -O PHY Response Status Q			Comment Type T The word "must" is us [Comment provided b SuggestedRemedy Change to "shall" or " Proposed Response			
C/ 45 SC 45.2.1.1:	-	L 10	# <mark>99328</mark>	<i>Cl</i> 45 <i>SC</i> 45.2.1.1 Law, David	3Com	L 28	# 114
Comment Type TR The operation of these also be status bits is n register should be able the device/MMD has b SuggestedRemedy	Comment Status A e bits is not consistent with that ot a common function. STA if e to read that register and alwa been reset.	writing a valid va ays get back the	alue to a control value written unless	Comment Type E Suggest the text can I SuggestedRemedy Change 'the PHY' t Proposed Response	Comment Status D be clarified. [Comment provide o 'the '-O' PHY' Response Status O	ed by Edward Turne	er]
Proposed Response	Response Status U						

ACCEPT.

C/ 45 SC 45.2.1.13.2 Law, David	Р 90 3Com	L 29	# 606	Cl 45 SC 45.2.1.15 Schneiderheinze, Burkart	P 91 Infineon Tech	L 37 nologies	# 433
Comment Type T Incorrect reference.	Comment Status D			Comment Type E remove 'CROSS REF'	Comment Status D	-	
Comment from Ed Turner. SuggestedRemedy				SuggestedRemedy remove 'CROSS REF'			
Change reference "45.2.1.	14" to "45.2.1.22"			Proposed Response	Response Status 0		
Proposed Response F	Response Status O						
				C/ 45 SC 45.2.1.19	P 92	L 32	# 71
C/ 45 SC 45.2.1.13.2.	P 90	L 29	# 432	Law, David	3Com		
Schneiderheinze, Burkart	Infineon Tech	nologies		Comment Type T Add a reference to the	Comment Status D clause that describes how thi	is register is used	I
	Comment Status D						
wrong cross reference SuggestedRemedy				[Comment provided by SuggestedRemedy	Edward Turner]		
change 45.2.1.14 to 45.2.1	.21			Suggesteartemedy See comment.			
Proposed Response F	Response Status O			Proposed Response	Response Status 0		
<i>Cl</i> 45 SC 45.2.1.14.1 Law, David	Р 90 3Com	L 51	# 42	C/ 45 SC 45.2.1.2.1 Grow, Robert	P 73 Intel	L 33	# 99329
	Comment Status D			Comment Type TR	Comment Status A	plies.	o D3.0 #54
[Comment provided by Edv SuggestedRemedy	vard Turner]			SuggestedRemedy Change to read: "For 10 been detected and mor	DPASS-TS or 2BASE-TL ope	erations, when rea	ad as one, a fault has
Add a PICS entry for the s	nall statement.			Proposed Response	Response Status U		
Proposed Response F	Response Status O			ACCEPT.			
C/ 45 SC 45.2.1.15 Dawe, Piers	P 91 Agilent	L 33	# 650				
Comment Type E Missing period	Comment Status D						
SuggestedRemedy "Also p93 lines 6, 28, p107	line 6, 25 and 54 and m	ore"					

P802.3ah E	Draft 3.1 Comments	
C/ 45 SC 45.2.1.2.2 P86 L5 # 21	Cl 45 SC 45.2.1.21 P 93 L 3	# 614
Law, David 3Com Comment Type T Comment Status D There's an extra "shall" statement added here but no new, nor change to the existing, PICS entry is provided. [Comment provided by Edward Turner] SuggestedRemedy	Law, David 3Com <i>Comment Type</i> E <i>Comment Status</i> D Missing "s" off the end of "threshold" Comment from Ed Turner. <i>SuggestedRemedy</i>	
Add an extra PICS entry or modify the existing PICS entry for subsection 45.2.1.2.2. Proposed Response Response Status O	Proposed Response Response Status O	
C/ 45 SC 45.2.1.21 P 93 L 1 # 5	Cl45SC45.2.1.21P 93L 4Schneiderheinze, BurkartInfineon Technologies	# 493
Comment Type T Comment Status D	Comment Type E Comment Status D 10PASS-TS missing	
There is no way an '-R' PHY can know when this register has been updated by an '-O' PHY. Maybe the '-R' PHY doesn't need to know. The '-O' PHY has register 1.33 to tell it when the link partner communication has completed.	SuggestedRemedy add 10PASS-TS	
[Comment provided by Edward Turner]	Proposed Response Response Status O	
SuggestedRemedy Either define a default for bits 15-4 that is not a valid operational value (dangerous) so that the '-R' PHY can poll the register to see when it's been updated. Or, add a bit to register 1.41 that is set to a "1" when the '-O' PHY has written to it and is cleared to a "0" when the '-R' STA reads from the PHY. Proposed Response Response Status O	Cl 45SC 45.2.1.23P 93L 39Law, David3ComComment Type TComment Type TComment Status DAdd a reference to the clause where the FEC counter is described.	# [<u>73</u>
C/ 45 SC 45.2.1.21 P93 L 21 # 72 Law, David 3Com	[Comment provided by Edward Turner] SuggestedRemedy See comment.	
Comment Type T Comment Status D Add a subclause with definitions for the loop attenuation threshold bits and the SNR margin threshold bits. Also reference the clause that uses these values.	Proposed Response Response Status O	
[Comment provided by Edward Turner] SuggestedRemedy See comment.		
Pronosed Pasnansa Pasnansa Status O		

Proposed Response Response Status **0**

			P802.3ah	h Draft 3.1 Comments				
C/ 45 SC 45.2.1.24 Law, David	. P 94 3Com	L 8	# 74	<i>Cl</i> 45 SC 45.2.1.27 Law, David	Р 95 3Com	L1	# 86	
Comment Type T Add a reference to the	Comment Status D clause where the FEC counter	er is described.		Comment Type E Comm The word "may" is a reserved we	nent Status D ord (See IEEE-SA S	Style Manual).		
[Comment provided by	Edward Turner]			13. Word usage				
SuggestedRemedy See comment.				======================================	n			
Proposed Response	Response Status O							
				<snip></snip>				
C/ 45 SC 45.2.1.25 Law, David	5 P 94 3Com	L 19	# 607	The word may is used to indicat standard (may equals is permitted		permissible with	n the limits of the	
	Comment Status D the "10P/2B Electrical Length Ill name and update table 45- ner.		e 1.48) If so, change	[Comment provided by Edward ⁻ SuggestedRemedy Change " may be" to " are Proposed Response Respo				
Proposed Response	Response Status O			Cl 45 SC 45.2.1.28 Law, David	Р 95 3Com	L 22	# 115	
C/ 45 SC 45.2.1.26 Schneiderheinze, Burkart	5 P 94 Infineon Tech	L 40	# 494	Is this register for the -O PHY or	nent Status D hly? It seems to be.	[Comment provid	led by Edward Turner]	
Comment Type E	Comment Status D ectrical length (as indicated ir	C C		SuggestedRemedy If this register is for the -O PHY port sub types' (as in other regis		o say 'This regist	er is only for the '-O'	
SuggestedRemedy remove 2B in heading a	and following paragraph			Also possibly needed for: 45.2.1 45.2.1.38.	.29, 45.2.1.30, 45.2	1.31, 45.2.1.32,	45.2.1.36, 45.2.1.37,	
	Response Status O			Proposed Response Respo	nse Status O			

P802.3ah Draft 3.1 Comments C/ 45 SC 45.2.1.3 P73 L 40 # 99330 C/ 45 SC 45.2.1.30 P96 L19 # 8 Grow. Robert Intel Law. David 3Com Comment Status A Comment Type TR o D3.0 #548 Comment Type т Comment Status D This paragraph in its current form is likely to generate interpretations requests. The section There is no subclause (i.e. 45.2.1.30.1) to define the behaviour of bit 1.53.0. is about two registers yet it uses the phrase "this register", etc. If these registers are part of the Link Partner MMD, it can only have one value as well as bit definition and the [Comment provided by Edward Turner] paragraph is not needed, it can simply be referenced. If the Link Partner MMD can have a SuggestedRemedy different value (e.g., the link partner's PMD/PMD device identifier), then it isn't the same Add a subsection with a description of the behaviour of this bit. registers but two different registers that have the same format. Proposed Response Response Status **O** SuggestedRemedy Delete the added paragraph, and correct by adding a description of the registers in 45.7. Reference 1.2, 1.3 definitions for format rather than replicating. C/ 45 SC 45.2.1.32 P97 L1 # 9 Proposed Response Response Status U Law. David 3Com ACCEPT IN PRINCIPLE. Comment Type т Comment Status D Change text to read "these registers" There is no subsection to define the behaviour of bit 1.56.0. Change text [Comment provided by Edward Turner] "this register is a member of the Link Partner PMA/PMD MMD." SuggestedRemedy Add a subsection with a description of the behaviour of this bit. to read Proposed Response Response Status **O** "Therefore, the Link Partner PMA/PMD MMD also contains PMA/PMD device identifier registers with the same format described here." C/ 45 SC 45.2.1.32 P97 L4 # 617 C/ 45 SC 45.2.1.3.6 P100 L 32 # 12 Law. David 3Com Law, David 3Com Comment Type E Comment Status D Comment Status D Comment Type **T** Change ".. for 10P .. " to ".. for the 10P .. " There is only a subsection definition for the bit "Refresh status". Comment from Ed Turner. [Comment provided by Edward Turner] SuggestedRemedy SuggestedRemedy Add subsections with definition text for all the other bits in the register. Proposed Response Response Status **O** Proposed Response Response Status 0

			P802.	ah Draft 3.1 Comm	ents			
Cl 45 SC 45.2.1.36 Law, David	Р 99 3Com	L 33	# 87	C/ 45 Schneider, Ke	SC 45.2.1.4 vin	P 103 Adtran	L 23	# 555
Comment Type E The abbreviation "who's	Comment Status D s" is for "who is" and is incorr	ect in this instance		Comment Typ SHDSL.bi		Comment Status D to 8 data ranges while this re	egister restrict it	to only 4.
[Comment provided by SuggestedRemedy Replace with "whose" n	-			SuggestedRei Change fr Proposed Res	om 4 to 8 data	a ranges and update the regine Response Status O	sters to reflect 8	range.
Proposed Response	Response Status O							
C/ 45 SC 45.2.1.36	1 <i>P</i> 100	L 32/33	# 608	C/ 45 S kimpe, marc	SC 45.2.1.4	P 103 Adtran	L 23	# 389
Law, David	3Com Comment Status D		# <u>000</u>	Comment Typ SHDSL.bi		Comment Status D to 8 data ranges while this re	egister restrict it	to only 4.
Comment Type T The bit "Refresh tone ta ? If so, change the text	ble" does not exist in registe	r 1.64 Is it the "Re	fresh tone status" b			a ranges and update the regi	sters to reflect 8	range.
Comment from Ed Turn	er.			Proposed Res	ponse	Response Status O		
SuggestedRemedy								
Proposed Response	Response Status 0			C/ 45 S Law, David	SC 45.2.1.40	P 103 3Com	L 19	# 619
C/ 45 SC 45.2.1.38	P101	L 47	# 286	Comment Typ Change ".	e E .set" to "se	Comment Status D ts"		
Dawe, Piers	Agilent			Comment	from Ed Turn	er.		
Comment Type E Punctuation.	Comment Status D			SuggestedRei	medy			
SuggestedRemedy Change to: PMA (see 62.2.4.3).				Proposed Res	ponse	Response Status O		
Proposed Response	Response Status 0							

P802.3ah Draft 3.1 Comments C/ 45 SC 45.2.1.40 P103 L 21 # 2 C/ 45 SC 45.2.1.40 P103 L 29 # 287 Dawe. Piers Law. David 3Com Agilent Comment Type т Comment Status D Comment Type Comment Status D Е Use of the word "peer". Change to "link partner" ? Please don't introduce more nerdy notation for machines into this standard! The main text Check chapter for other occurrences and change. is to be written in human language. SuggestedRemedv [Comment provided by Edward Turner] Replace == with 'is' or 'equals'. SuggestedRemedy Proposed Response Response Status 0 Change all occurrences of "peer" to "link partner". Proposed Response Response Status 0 C/ 45 SC 45.2.1.40 P103 L 29 # 621 Law. David 3Com C/ 45 SC 45.2.1.40 P103 L 25 # 495 Comment Type Е Comment Status D Schneiderheinze, Burkart Infineon Technologies Too many "=" symbols (C notation?). Change "==" to "=" in two places here and anywhere Comment Type **TR** Comment Status D else it appears in C45. If at least one data rate range is specified with different min and max data rates, the peer PMA/PMDs perform line probing'. Not clear on which data rates line probing should take Comment from Ed Turner. place, what the PMMS probe duration should be. Additionally each SHDSL PHY requests SuggestedRemedy prodict specific probes from the other side SuggestedRemedy Proposed Response Response Status **O** remove sentence and add PMMS bit in i.e. 2B general parameter register. The description of the bit shall mention when enabled that the SHDSL PHY selects data rates and probe duration based on the ranges defined in the 2B PMD parameters register. C/ 45 SC 45.2.1.40 P103 L 30 # 622 Proposed Response Response Status 0 Law. David 3Com Comment Type Е Comment Status D C/ 45 SC 45.2.1.40 P103 L 26 # 620 Change "..and link.." to "..and the link.." Law, David 3Com Comment from Ed Turner. Comment Type E Comment Status D SuggestedRemedy Change "...PMMS. link.." to "...PMMS. the link.." Comment from Ed Turner. Proposed Response Response Status **O** SuggestedRemedy Proposed Response Response Status 0

P802.3ah Draft 3.1 Comments C/ 45 SC 45.2.1.40 P104 L11 # 288 C/ 45 SC 45.2.1.40 P105 L 40 # 499 Dawe. Piers Agilent Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D Comment Type T Comment Status D Consistency. not clear where the current data rate should be put in SuggestedRemedy SuggestedRemedy Replace all instances of 'kbps' with 'kb/s' define a new register (16 bit) which contains the negotiated data rate (8 bit) and the constellation (8 bit) Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 45 SC 45.2.1.40 P104 L 23 # 497 C/ 45 SC 45.2.1.42 P106 L16 # 291 Infineon Technologies Schneiderheinze, Burkart Dawe, Piers Agilent Comment Type T Comment Status D Comment Type Е Comment Status D Power already defined by Annex and data rate, additional specification not necessary Never decrement? only in the wrong place. SuggestedRemedy SuggestedRemedy remove power fields in 2B PMD register, align additionally all fields to 8 bit boundary Change 'its value will only increment when refreshed.' to 'its value will increment only when Response Status 0 Proposed Response refreshed.' Also in 45.2.1.46, 45.2.1.48 and other places. Response Status 0 Proposed Response C/ 45 SC 45.2.1.40 P104 L 25 # 496 Schneiderheinze. Burkart Infineon Technologies C/ 45 SC 45.2.1.43 P106 L 31 # 292 Comment Type E Comment Status D Dawe, Piers Agilent not clear what automatic means Comment Status D Comment Type Е SuggestedRemedy Font size, . add description that automatic means the selection of the constellation is up to the PHY SuggestedRemedy Proposed Response Response Status 0 Also in 45.2.1.45 and other places. Proposed Response Response Status 0 C/ 45 SC 45.2.1.40 P104 L8 # 498 Schneiderheinze, Burkart Infineon Technologies C/ 45 SC 45.2.1.43 P106 L 39 # 500 Comment Type T Comment Status D Schneiderheinze. Burkart Infineon Technologies the -R device needs also write access to 2B PMD register in order to limit ranges to its Comment Type T Comment Status D capabilites non roll over behaviour is not described SuggestedRemedy SuggestedRemedy allow the -R device also read access to this register remove NR Proposed Response Response Status 0 Proposed Response Response Status 0

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause
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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 45

			F 002.3an D	oraft 3.1 Comments			
C/ 45 SC 45.2.1.49 Law, David	Р 108 3Com	L 7	# 3	C/ 45 SC 45.2.3.17. Law, David	2 P 114 3Com	L 33	# 611
Comment Type T What has been unavail	Comment Status D able? Add a sentence to clar	ify.		Comment Type T Change "attempted" t	Comment Status D o "completed"		
[Comment provided by	Edward Turner]			Comment from Ed Turn	er.		
SuggestedRemedy See comment.				SuggestedRemedy			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 45 SC 45.2.1.49 Schneiderheinze, Burkart	P 108 Infineon Tech	L 7 nologies	# 501	C/ 45 SC 45.2.3.18 Dawe, Piers	P 114 Agilent	L 48	# 651
Comment Type E counter is 8 bit wide	Comment Status D			Comment Type E simultaneously. (default	Comment Status D		
SuggestedRemedy 8.bit counter				SuggestedRemedy remove the .			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 45 SC 45.2.3.	P 112 Infineon Tech	L 7 nologies	# 434	Cl 45 SC 45.2.3.18 Schneiderheinze, Burkart	P 114 Infineon Tec	L 54 hnologies	# 435
<i>Comment Type</i> T Register 3.72 appears	Comment Status D			<i>Comment Type</i> E typo: R/O instead of RO	Comment Status D		
SuggestedRemedy change PAF lost end fr	om 72 to 73, change start of	reserved registe	ers accordingly	SuggestedRemedy change R/O to RO			
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 45 SC 45.2.3.17 Dawe, Piers	P 114 Agilent	L 5	# 294	C/ 45 SC 45.2.3.18 Schneiderheinze, Burkart	P 115 Infineon Tec	L 22 hnologies	# 503
	Comment Status D ect: 'The 10P/2B capability re			Comment Type T term 'link established' is	Comment Status D just local, how do I set the	PAF enable side	on the -R device?
PHY.'. Because that's doesn't control.	what a control register is for.	A capability re	gister reports capability,	SuggestedRemedy			
<i>uggestedRemedy</i> Change 'controls' to 're	ports' or similar.				defined for setting the PAI ning PME aggregation, dat ne true		
-				Proposed Response	Response Status O		

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 42
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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 45

Page 42 of 130 C/ 45 SC 45.2.3.18

Cl 45 SC 45.2.3.1 Dawe, Piers	I8.1 P115 Agilent	L 6	# 295	C/ 45 SC 45.2.3.19 Law, David	P 115 3Com	L 38	# 76
	Comment Status D 3.61.14 control or capability bits ent in a control register imply co		ion is like capability,		Comment Status D rved word and probably no	t what is intende	d here.
SuggestedRemedy If they are control bits	s, add the corresponding capab	ility bits to Table	9 45-42a.	From the IEEE-SA Style 13. Word usage	manual:		
Proposed Response	Response Status O	,		13.1 Shall, should, may,	and can		
Cl 45 SC 45.2.3.1 Schneiderheinze, Burkart		L 28 nologies	# 504	<snip></snip>			
Comment Type E register is a PCS regi	Comment Status D ister therefore not the PME is o	queried but the F	PCS	The word may is used to standard (may equals is	indicate a course of actior permitted).	n permissible with	nin the limits of the
SuggestedRemedy				[Comment provided by E	dward Turner]		
	with PME connected/attached	to the queried F	CS	SuggestedRemedy			
Proposed Response	Response Status O			Is this really a permitted	option - if not the text may	need to be rewo	rded.
				Proposed Response	Response Status 0		
Cl 45 SC 45.2.3.1 Law, David	19 P 115 3Com	L 31	# 43	0.45			
Comment Type T	Comment Status D			Cl 45 SC 45.2.3.2.2. Schneiderheinze, Burkart	P 113 Infineon Tecl	L 26 nnologies	# 502
No PICS entry for the	e "shall".			Comment Type T	Comment Status D	-	
[Comment provided b SuggestedRemedy	by Edward Turner]			not clear whether in an a be active or at minimum	pplication with i.e. 4 PMA/I 1 is sufficient	PMD all TCsynch	nronized signals have to
Add a PICS entry for	the shall statement.			SuggestedRemedy			
Proposed Response	Response Status O			add a note, that in case bit to one	of more TCs at least 1 TC s	sublayer is synch	nronized for setting this
C/ 45 SC 45.2.3.1	19 <i>P</i> 115	L 33	# 116	Proposed Response	Response Status O		
Law, David	3Com	200	<i>"</i> 110	C/ 45 SC 45.2.3.20	P116	L 28	# 505
Comment Type E	Comment Status D			Schneiderheinze, Burkart	Infineon Tecl		# 505
Too many eses in 'the	eses'. [Comment provided by E	dward Turner]		Comment Type T	Comment Status D		
SuggestedRemedy				shouldn't MMD reset 'tur	n the PAF off'?? If yes, afte	er reset this regis	ter should be '0'
See comment.				SuggestedRemedy			
Proposed Response	Response Status O			reset value of '0', consid	er PAF enable bit		
				Proposed Response	Response Status O		

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause
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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 45
 SC 45.2.3.20

P802.3ah Draft 3.1 Comments C/ 45 SC 45.2.3.21 P116 L 54 # 436 C/ 45 SC 45.2.6 P112 L13 # 506 Schneiderheinze, Burkart Infineon Technologies Schneiderheinze, Burkart Infineon Technologies Comment Type **T** Comment Status D Comment Type T Comment Status D PAF RX error counter: should currently be present (and used, I suppose) even if PAF is not TC control register missing (for i.e. reset which is used in TC synchronization state implemented. This is a contradiction to page 366, line 31 (there is defined that when PAF is machines - see 61.3.3.5.1) not available or not enabled no PAF error detecting rules are applied). SuggestedRemedv SuggestedRemedy add TC control register, with at least the reset bit defined harmonize Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 45 SC 45.2.6.10 P126 L 22 # 443 C/ 45 SC 45.2.3.26 P118 L 42 # 77 Schneiderheinze, Burkart Infineon Technologies Law. David 3Com Comment Type E Comment Status D Comment Type т Comment Status D wrong cross reference Can't find the register in the cross reference (45.2.3.17). Broken reference? or incorrect SuggestedRemedy register? fix it [Comment provided by Edward Turner] Proposed Response Response Status 0 SuggestedRemedy See comment. C/ 45 SC 45.2.6.3 P122 L10 # 117 Proposed Response Response Status 0 Law. David 3Com Comment Status D Comment Type E C/ 45 SC 45.2.3.26 P118 L 42 # 437 While 'please' is polite, its not IEEE style. [Comment provided by Edward Turner] Schneiderheinze, Burkart Infineon Technologies SuggestedRemedv Comment Type T Comment Status D Delete 'please'. PAF lost fragment register should currently not be incremented when coding violation counter was incremented for a fragment. This is only reasonable if exactly one fragment is Also on page 123, line 54. discarded because of a coding violation; but PAF lost fragment has also only to be set Proposed Response Response Status 0 once if more fragments are missing (possibly for different reasons like TC-CRC-error or loss of sync in one of the TCs). So it makes no sense to handle this very special case.

SuggestedRemedy

Remove sentence 'If the coding violation counter register (see 45.2.3.17) is incremented for a fragment, this register is not incremented for the same fragment'

Proposed Response Response Status **O**

C/ 45 SC 45.2.6.3.1 Law, David	P 122 3Com	L 43	# 624	C/ 45SC 45.2.6.4.P 123L 7# 440Schneiderheinze, BurkartInfineon Technologies
Comment Type E Add an "s" to the end of Comment from Ed Turne SuggestedRemedy	Comment Status D			Comment Type T Comment Status D 10P/2B aggregation discovery status register' is only defined for -O-Ports. This sentence missing SuggestedRemedy add this sentence
Proposed Response	Response Status O			Proposed Response Response Status O
C/ 45 SC 45.2.6.3.1	P123	L1	# 79	Cl 45SC 45.2.6.4.1P 123L 22# 438Schneiderheinze, BurkartInfineon Technologies
.aw, David Comment Type T '1.32.13' is incorrect. Ch	3Com Comment Status D ange to '6.17.0'			Comment Type T Comment Status D Result of 'Link Partner Aggregation' is merged into discovery status register. These are seperate functions, justifying an own '10P/2B Link Partner PME aggregate status' register
[Comment provided by E SuggestedRemedy	C C			SuggestedRemedy Create '10P/2B Link Partner PME aggregate status' register. Adapt Table 45-59a accordingly.
See comment. Proposed Response	Response Status O			Proposed Response Response Status O
C/ 45 SC 45.2.6.3.1.		L1	# 439	C/ 45 SC 45.2.6.4.1 P 123 L 28 # 80 Law, David 3Com 3Com
Comment Type E wrong cross reference	Infineon Tech Comment Status D	inologies		Comment Type T Comment Status D 'shall read as zero' would be better as 'shall remain set to zero' Also on line 41.
SuggestedRemedy change 1.32.13 to 6.17.0	0			[Comment provided by Edward Turner] SuggestedRemedy See comment.
Proposed Response	Response Status O			Proposed Response Response Status O

Cl 45 SC 45.2.6. Schneiderheinze, Burkar		L 54 nologies	# 507	<i>Cl</i> 45 SC 45.2.6 Law, David	6.6.1 P 124 3Com	L 47	# 4
	Comment Status D is register contains after g.994. egisters received from the -R de		alue of	Comment Type T The word "must" is	Comment Status D used here.		
SuggestedRemedy				From the IEEE-SA	Style manual:		
add a note that these the -R device	e register store the value of rem	note_discovery_	registers received from	13. Word usage			
Proposed Response	Response Status O			13.1 Shall, should,	may, and can		
Cl 45 SC 45.2.6. Law, David	.6.1 <i>P</i> 124 3Com	L 44	# 81	conform to the stan	sed to indicate mandatory requi dard and from which no deviation	on is permitted (sl	hall equals is required
Comment Type T '1.22.1:0' is incorrect	Comment Status D t. Change to '1.21.1:0'.			requirements; must will is deprecated a	word must is deprecated and sh t is used only to describe unavo ind shall not be used when stati	idable situations.	The use of the word
[Comment provided	by Edward Turner]			used in statements	of fact.		
SuggestedRemedy				[Comment provideo	d by Edward Turner]		
See comment.				SuggestedRemedy			
Proposed Response	Response Status O			Change "must" to "			
				Proposed Response	Response Status O		
				C/ 45 SC 45.2.6 Law, David	6.6.1 P125 3Com	L 2	# 118
				Comment Type E Add 's' to end of 're	Comment Status D turn'. [Comment provided by Ed	lward Turner]	
				SuggestedRemedy See comment.			
				Proposed Response	Response Status 0		

C/ 45 SC 45.2.6.7.	P 125	L 33	# 441	C/ 45 SC 45.2.6.9. P126 L7 # 442
Schneiderheinze, Burkart	Infineon Tech	nologies	L	Schneiderheinze, Burkart Infineon Technologies
Comment Type E wrong register name in SuggestedRemedy change to link partner F				Comment Type T Comment Status D TC encapsulation error counter register: add a hint that this register is incremented for each TC_coding_error signal defind in clause 61. SuggestedRemedy
Proposed Response	Response Status O			add a hint that this register is incremented for each TC_coding_error signal defind in clause 61.
C/ 45 SC 45.2.6.8	P125	L 43	# 119	Proposed Response Response Status O
Law, David <i>Comment Type</i> E Better than 'as in 61.2	3Com Comment Status D 2.3' is 'defined in 61.2.3'.			CI 45SC 45.2.7P 127L 22# 296Dawe, PiersAgilentComment TypeEComment StatusD
Also on page 126, line SuggestedRemedy See comment.	 [Comment provided by Ed 	ward Turner]		capital SuggestedRemedy put 'Buffer' into lower case - several occurrences.
Proposed Response	Response Status O			Proposed Response Response Status O
C/ 45 SC 45.2.6.9 Law, David	P 126 3Com	L 3	# 625	C/ 45 SC 45.2.7.2.1 P 127 L 52 # 126 Brown, Benjamin Independent Indepininitititititititititititititititititi
Comment from Ed Turr	Comment Status D 64 octet" to "number of 64/ ner.	64 octet"		Comment Type TR Comment Status D According to the second paragraph in section 11 of the IEEE Standards Style Manual, Clauses and subclauses shall be divided into further subclauses only when there is to be more than one subclause. In other words, clauses and subclauses should not be broken down into further subclauses if another subclause of the same level does not exist.
SuggestedRemedy Proposed Response	Response Status O			SuggestedRemedy This subclause cannot stand alone. Either create a peer subclause for the reserved bits or
				make this description part of 45.2.7.2. Doing a quick check through the clause shows there are lots of places like this.
				45.2.1.25.1 45.2.1.27.1 45.2.1.28.1 45.2.1.36.1

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Cl 45 SC 45.2.7.3 . Schneiderheinze, Burkart	P 128 Infineon Tech	L 12 nologies	# 444	Cl 45 SC 45.5.5.16 Law, David	Р 137 3Com	L 18	# 62
Comment Type T wrong description for FE	Comment Status D	-		Comment Type T Add "or reset" to the "fe	Comment Status D ature" column of TC20.		
SuggestedRemedy change to 1 = enable, 0	= disable			[Comment provided by	Edward Turner]		
Proposed Response	Response Status O			SuggestedRemedy See comment.			
C/ 45 SC 45.2.7.3.1	P 128	L 21	# 652	Proposed Response	Response Status O		
Dawe, Piers	Agilent			C/ 45 SC 45.5.5.16	P137	L 23	# 63
Comment Type E	Comment Status D			Law, David	3Com		
an PHY SuggestedRemedy a PHY				Comment Type T Add "or reset" to the "fe	Comment Status D ature" column of TC22.		
Proposed Response	Response Status 0			[Comment provided by SuggestedRemedy See comment.	Edward Turner]		
C/ 45 SC 45.5.5.15 .aw, David	P 136 3Com	L 33	# 60	Proposed Response	Response Status O		
Comment Type T Add "or reset" to the "fea	Comment Status D ature" column of TC10.			C/ 45 SC 45.5.5.17 Dawe, Piers	P 137 Agilent	L 30	# 299
[Comment provided by B SuggestedRemedy	Edward Turner]			Comment Type E 45.5.5.17 or 45.5.5.16?	Comment Status D		
See comment. Proposed Response	Response Status O			SuggestedRemedy 45.5.5.16?			
				Proposed Response	Response Status O		
Cl 45 SC 45.5.5.16 Law, David	Р 137 3Com	L13	# 61				
Comment Type T Add "or reset" to the "fea	Comment Status D ature" column of TC18.						
[Comment provided by I	Edward Turner]						
SuggestedRemedy See comment.							
Proposed Response	Response Status O						

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

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			1 00210411				
Cl 45 SC 45.5.17 Dawe, Piers	P 138 Agilent	L 14	# 297	C/ 45 SC 45.5.3 Law, David	P 132 3Com	L13	# 46
Comment Type T There seem to be sever save rework in a future	Comment Status D eral PICS entries marked as 0 project:	CTT:M which are	FEC-specific. To	Comment Type T Add "or reset" to MM1	Comment Status D 3 "feature" column.		
SuggestedRemedy	ajor option for FEC, status CT	T:M, and change	e items CT5-11 to	[Comment provided by SuggestedRemedy See comment.	^r Edward Turner]		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 45 SC 45.5.3 Law, David	P 131 3Com	L 8	# 44	C/ 45 SC 45.5.5.3 Law, David	Р 132 3Com	L16	# 47
Comment Type T There is no "shall" state	Comment Status D ement for this PICS entry.			Comment Type T Change "45.2.1.25" to	Comment Status D "45.2.1.25.1"		
[Comment provided by SuggestedRemedy Delete this PICS entry.	-			[Comment provided by SuggestedRemedy See comment.	rEdward Turner]		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 45 SC 45.5.3 Law, David	P 132 3Com	L 10	# 45	C/ 45 SC 45.5.5.3 Law, David	Р 132 3Com	L 22	# 48
Comment Type T Add "or reset" to MM17	Comment Status D 7 "feature" column.			Comment Type T Add "or reset" to MM2	Comment Status D 1 "feature" column.		
[Comment provided by	Edward Turner]			[Comment provided by	Edward Turner]		
SuggestedRemedy See comment.				SuggestedRemedy See comment.			
Proposed Response	Response Status 0			Proposed Response	Response Status O		

	Diac	1.05	" [10]		D400	1.00	" 50
C/ 45 SC 45.5.5.3 Law, David	P 132 3Com	L 25	# 49	C/ 45 SC 45.5.3 Law, David	Р 132 3Com	L 32	# 52
Comment Type T Comment Type T Comment Type T Comment Type T Commented and the type of type of the type of type	Comment Status D ature" column.			Comment Type T C Add "or reset" to MM25 "fea	comment Status D ture" column.		
[Comment provided by Edv	ward Turner]			[Comment provided by Edw	ard Turner]		
SuggestedRemedy See comment.				SuggestedRemedy See comment.			
Proposed Response R	Response Status O			Proposed Response Re	esponse Status O		
C/ 45 SC 45.5.5.3 Law, David	P 132 3Com	L 27	# <u>50</u>	Cl 45 SC 45.5.5.6 Law, David	P 133 3Com	L 30	# 53
Comment Type T (Add "or reset" to MM23 "fea	Comment Status D ature" column.			Comment Type T C Can't find "shall" statements the register bits in section 4		155. Can't relate	these PICS entries
[Comment provided by Edv	ward Turner]			0			
SuggestedRemedy See comment.				[Comment provided by Edw SuggestedRemedy	-		
Proposed Response R	Response Status O			Should items RM53, RM54,	and RM55 be deleted ?		
				Proposed Response Re	esponse Status O		
C/ 45 SC 45.5.5.3 Law, David	P 132 3Com	L 29	# 51	Cl 45 SC 45.5.5.6 Dawe, Piers	P 133 Agilent	L 40	# 653
Comment Type T (Add "or reset" to MM24 "fea	Comment Status D ature" column.			,	Comment Status D		
[Comment provided by Edv	ward Turner]			SuggestedRemedy			
SuggestedRemedy				0 to			
See comment.					esponse Status O		
Proposed Response R	Response Status O						

C/ 45 SC 45.5.6	P 133	L 40	# 298	C/ 45 SC 45.5.6 P133 L 50 # 57	
Dawe, Piers	Agilent			Law, David 3Com	
Comment Type E Oto	Comment Status D			Comment Type T Comment Status D There's no "shall" statement for RM59.	
SuggestedRemedy 0 to				[Comment provided by Edward Turner] SuggestedRemedy	
Proposed Response	Response Status O			Should item RM59 be deleted ?	
				Proposed Response Response Status O	
C/ 45 SC 45.5.5.6 Law, David	P 133 3Com	L 43	# 55		
Comment Type T	Comment Status D	450		C/ 45 SC 45.5.6 P 134 L 3 # 58 Law, David 3Com	
I here's only one "shall [Comment provided by	" statement for RM57 and RM	158.		Comment Type T Comment Status D RM61 and RM62 duplicate the same conditions.	
SuggestedRemedy Should item RM58 be o				[Comment provided by Edward Turner] SuggestedRemedy	
Proposed Response	Response Status O			Should item RM62 be deleted ?	
				Proposed Response Response Status O	
C/ 45 SC 45.5.5.6 Law, David	Р 133 3Com	L 43	# 54		
Comment Type T	Comment Status D			C/ 45 SC 45.5.6 P 135 L 29 # 59 Law, David 3Com	
Add "or initializing" to t				Comment Type T Comment Status D No "shall" statements for RM81 or RM82.	
SuggestedRemedy See comment.	-			[Comment provided by Edward Turner]	
Proposed Response	Response Status O			SuggestedRemedy Should items RM81 and RM82 be deleted ?	
				Proposed Response Response Status O	

C/ 45 SC 45.5.5.8	P 133	L 27	# 56	C/ 45	SC 45-2	P 83	L 35	# 67
₋aw, David	3Com			Law, David		3Com		
Comment Type T	Comment Status D			Comment T	rpe T	Comment Status D		
Can't find a "shall" sta	tement for RM52.					dicate in this table which regist		
[Comment provided by	/ Edward Turner]			,		32, 1.33, 1.34/35, 1.38, 1.40, 1 ŀ, 1.96, 1.98, 1.100	.42, 1.48, 1.49, 1	.57, 1.58, 1.59-63,
SuggestedRemedy				And (I th	ink) 1 50 1 f	51/52, 1.53, 1.54/55, 1.56, 1.65	5/67 1 68 1 69	
Should item RM52 be	deleted ?			,	, .		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Proposed Response	Response Status O			[Comme	nt provided b	by Edward Turner]		
				SuggestedF				
C/ 45 SC 45-106	P88	L18	# 110	– See cor	iment.			
_aw, David	3Com	210	# <u>110</u>	Proposed R	esponse	Response Status O		
Comment Type E	Comment Status D			. <u></u>				
	viour is placed on the line abo			C/ 45	SC 45-3	P 85	L 22	# 68
[Comment provided by	behaviour to be described or / Edward Turner]	the line above (U benaviour.	Law, David		3Com		
SuggestedRemedy				Comment T		Comment Status D		
Swap the two lines ov	er.			10PASS	-IS/2BASE-	TL has been added to this tabl	e.	
	20 45 4 20 42 4 20 44 4 22	40 4 50 0 4 50	45 4 50 44 4 00 45	[Comme	nt provided b	by Edward Turner]		
	.32.15, 1.32.13, 1.33.14, 1.33 .12, 1.60.12, 1.60.11, 1.61.0,			SuggestedF	emedy			
missed.	, , ,,	- ,	, ,			ssociated subsection text for b	oits 1.0.5:2 to incl	ude a description of
Proposed Response	Response Status 0			the new	0			
				Proposed R	esponse	Response Status O		
X 45 SC 45-10y	P 103	L 14	# 95	C/ 45	SC Table (5-102 <i>P</i> 104	L 22	# 7
aw, David	3Com			Law, David	SC Table 4	3Com	L ZZ	# 75
Comment Type E	Comment Status D			,		Comment Status D		
Add "RO" definition to	note.			Comment T		bt used in Clause 45. Also line	12 and page 105	lines 12 and 22
[Comment provided by	/ Edward Turner]			The flot		n useu in Clause 45. AISO IIITE	+2 and page 100	, intes 15 and 55.
SuggestedRemedy	-			[Comme	nt provided b	by Edward Turner]		
See comment.				SuggestedF	emedy			
	Response Status O			Delete :	d or replace	with '[6:2]'		
Proposed Response								

		P802.3ah	Draft 3.1 Comments
C/ 45 SC Table 45-10a P 78 Law, David 3Com	L 21	# 91	CI 45 SC Table 45-10af P 109 L 4 # 17 Law, David 3Com
Comment Type E Comment Status D Don't need "RO" or "SC" definitions in note.			Comment TypeTComment StatusDThere are no subsections to describe the behaviour of these bits.
[Comment provided by Edward Turner]			[Comment provided by Edward Turner]
SuggestedRemedy See comment.			SuggestedRemedy Add subsections and descriptive text.
Proposed Response Response Status O			Proposed Response Response Status O
C/ 45 SC Table 45-10ab P 106 Law, David 3Com	L 40	# 97	Cl 45 SC Table 45-10b P 88 L 15 # 64 Law, David 3Com
Comment Type E Comment Status D Add "NR" definition to note. [Comment provided by Edward Turner] SuggestedRemedy See comment.			Comment Type T Comment Status D The notation ":=" is borrowed from "C" and I don't think is usual in 802.3 Replace with "=" or the text "is equal to". Also scrub the rest of the chapter for this (Tables 45-10o, 45-10q, 45-10t, 45-10v, 45-10z). SuggestedRemedy
Proposed Response Response Status O			See comment. Proposed Response Response Status O
Cl 45 SC Table 45-10af P 109 Law, David 3Com Comment Type E Comment Status D Add "R/W" definition to note.	L 19	# 98	Cl 45 SC Table 45-10c P 89 L 16 # 82 Law, David 3Com Comment Type T Comment Status D
[Comment provided by Edward Turner]			I found this table quite confusing and it took some time to work out what it was trying to say.
SuggestedRemedy			[Comment provided by Edward Turner]
See comment.			SuggestedRemedy
Proposed Response Response Status O			 [1] Delete the third column ('-R'). [2] Rename the column called 'link partner register -O' to 'Register accessed in -O PHY'. [3] Rename the column called 'local register counterpart -O' to 'Register mirrored from / to - R PHY'.
			Proposed Response Response Status O

			F002.3an	
C/ 45 SC Table 4 Law, David	15-10d P 90 3Com	L13	# 92	C/ 45 SC Table 45-10i P 93 L 20 # 94 Law, David 3Com
Comment Type E Don't need "RO" in n	Comment Status D ote. Add "R/W" definition to no	te.		Comment Type E Comment Status D Add "RO" definition to note.
[Comment provided b	by Edward Turner]			[Comment provided by Edward Turner]
SuggestedRemedy See comment.				SuggestedRemedy See comment.
Proposed Response	Response Status 0			Proposed Response Response Status O
C/ 45 SC Table 4 .aw, David	15-10d P 90 3Com	L 5	# 85	Cl 45 SC Table 45-10t P 98 L 1 # 10 Law, David 3Com
"value". Other tables	" should be capitalized. As sho are also missing capitalization ize the first letter of each line o by Edward Turner]	of the first letters	s in line entries. Scrub	There are no subsections to describe the behaviour of these bits. [Comment provided by Edward Turner] SuggestedRemedy Add subsections and descriptive text. Proposed Response Response Status O
Proposed Response	Response Status 0			C/ 45 SC Table 45-10t P 98 L 14 # 103 Law, David 3Com
C/45 SC Table 4 aw, David	5-10g P 92 3Com <i>Comment Status</i> D	L15	# 93	Comment Type E Comment Status D Delete ":" after "1.59.4:0".
Comment Type E Add "R/W" definition				[Comment provided by Edward Turner]
[Comment provided buggestedRemedy	by Edward Turner]			SuggestedRemedy See comment.
See comment.				Proposed Response Response Status O
Proposed Response	Response Status O			

C/ 45 SC Table 45 Law, David	-10t <i>P</i> 98 3Com	L 25	# 112	C/ 45 SC Table 45-10v P 100 L 22 # 7
Comment Type T	Comment Status D 62.15:9". [Comment provided	d by Edward Turne	r]	Comment Type T Comment Status D I don't understand why the SNR margin is split over 2 registers in this way. Surely it would be better to have all the SNR margin bits in one register? (i.e. bits 15:7). [Comment provided by Edward Turner]
Proposed Response	Response Status O			SuggestedRemedy See comment.
Cl 45 SC Table 45	i-10t P 98 3Com	L 29	# 102	Proposed Response Response Status O
Comment Type T Change "1.63.9" to "1.	Comment Status D 63.15:9".			C/ 45 SC Table 45-10w P 101 L 10 # 13 Law, David 3Com
[Comment provided by SuggestedRemedy See comment. Proposed Response	r Edward Turner] Response Status O			Comment Type T Comment Status D There are no subsections to describe the behaviour of these bits. [Comment provided by Edward Turner] SuggestedRemedy Add subsections and describe to
C/ 45 SC Table 45	-10u P 99 3Com	L 5	# 11	Add subsections and descriptive text Proposed Response Response Status O
<i>Comment Type</i> T There are no subsection	Comment Status D	r of these bits.		C/ 45 SC Table 45-10w P 101 L 12 # 104 Law, David 3Com 3Com
[Comment provided by SuggestedRemedy	edward Turner]			Comment Type E Comment Status D Change "-" to ":" in "1.68.15-9".
Add subsections and o	descriptive text.			[Comment provided by Edward Turner]
Proposed Response	Response Status O			SuggestedRemedy See comment.
				Proposed Response Response Status O

C/ 45 SC Table 45-10w <i>P</i> 101 <i>L</i> 21 # Law, David 3Com	88 C/ 45 SC Table 45-10x P 102 L 5 # 105 Law, David 3Com
Comment Type E Comment Status D Incomplete sentence "turned off end".	Comment Type E Comment Status D Change "-" to ":" in "1.69.15-9".
[Comment provided by Edward Turner]	[Comment provided by Edward Turner]
SuggestedRemedy Complete the sentence.	SuggestedRemedy See comment.
Proposed Response Response Status O	Proposed Response Response Status O
C/ 45 SC Table 45-10x P 102 L 14 # .aw, David 3Com	66 C/ 45 SC Table 45-10y P 103 L 3 # 15 Law, David 3Com
Comment Type T Comment Status D The statement " the power switch was turned off" seems very specific. What	at if the power T Comment Status D There are no subsections to describe the behaviour of these bits. Clarification is require
supply just failed? Wouldn't that seem the same? [Comment provided by Edward Turner]	[Comment provided by Edward Turner] SuggestedRemedy
supply just failed? Wouldn't that seem the same?	the three "Annexes" referred to here. Are these Annexes in the 802.3 document? [Comment provided by Edward Turner]
supply just failed? Wouldn't that seem the same? [Comment provided by Edward Turner] SuggestedRemedy Change to " power has been removed from the far end"	the three "Annexes" referred to here. Are these Annexes in the 802.3 document? [Comment provided by Edward Turner] SuggestedRemedy
supply just failed? Wouldn't that seem the same? [Comment provided by Edward Turner] SuggestedRemedy Change to " power has been removed from the far end" Proposed Response Response Status O	the three "Annexes" referred to here. Are these Annexes in the 802.3 document? [Comment provided by Edward Turner] SuggestedRemedy Add subsections and descriptive text.
supply just failed? Wouldn't that seem the same? [Comment provided by Edward Turner] SuggestedRemedy Change to " power has been removed from the far end" Proposed Response Response Status O Cl 45 SC Table 45-10x P102 L3 # .aw, David 3Com	the three "Annexes" referred to here. Are these Annexes in the 802.3 document? [Comment provided by Edward Turner] SuggestedRemedy Add subsections and descriptive text. Proposed Response Response Status O [14] C/ 45 SC Table 45-10z P 104 L 17 # 106
supply just failed? Wouldn't that seem the same? [Comment provided by Edward Turner] SuggestedRemedy Change to " power has been removed from the far end" Proposed Response Response Status O Cl 45 SC Table 45-10x P 102 L 3 # .aw, David 3Com Comment Type T Comment Status D	the three "Annexes" referred to here. Are these Annexes in the 802.3 document? [Comment provided by Edward Turner] SuggestedRemedy Add subsections and descriptive text. Proposed Response Response Status O [14] Cl 45 SC Table 45-10z P 104 L 17 # 106 Law, David 3Com Comment Type E Comment Status D
supply just failed? Wouldn't that seem the same? [Comment provided by Edward Turner] SuggestedRemedy Change to " power has been removed from the far end" Proposed Response Response Status O Cl 45 SC Table 45-10x P 102 L 3 aw, David 3Com Comment Type T Comment Type T Comment provided by Edward Turner]	the three "Annexes" referred to here. Are these Annexes in the 802.3 document? [Comment provided by Edward Turner] SuggestedRemedy Add subsections and descriptive text. Proposed Response Response Status O [14] Cl 45 SC Table 45-10z P 104 L 17 # 106 Law, David 3Com Comment Type E Comment Status D Change "1.82.15:13" to "1.82.15:14".
supply just failed? Wouldn't that seem the same? [Comment provided by Edward Turner] SuggestedRemedy Change to " power has been removed from the far end" Proposed Response Response Status O Cl 45 SC Table 45-10x P 102 L 3 # Law, David 3Com Comment Type T Comment Status D There are no subsections to describe the behaviour of these bits.	the three "Annexes" referred to here. Are these Annexes in the 802.3 document? [Comment provided by Edward Turner] SuggestedRemedy Add subsections and descriptive text. Proposed Response Response Status O [14] C/ 45 SC Table 45-10z P 104 L 17 # 106 Law, David 3Com Comment Type E Comment Status D Change "1.82.15:13" to "1.82.15:14". [Comment provided by Edward Turner]

			F 002.3al	Draft 3.1 Comments	
C/ 45 SC Table 45-10z Law, David	P 104 3Com	L 37	# 107	C/ 45 SC Table 45-10z P 105 L 40 # 96 Law, David 3Com 3Com <t< th=""><th></th></t<>	
Comment Type E Comm Change "1.84.15:13" to "1.84.15:	nent Status D :14".			Comment Type E Comment Status D Add "RO" definition to note.	
[Comment provided by Edward T	[urner]			[Comment provided by Edward Turner]	
SuggestedRemedy See comment.				SuggestedRemedy See comment.	
Proposed Response Respon	nse Status O			Proposed Response Response Status O	
C/ 45 SC Table 45-10z Law, David	Р 104 3Com	L 5	# 16	C/ 45 SC Table 45-10z P 105 L 8 # 108 Law, David 3Com	
Comment Type T Comm There are no subsections to desc	nent Status D cribe the behaviour	of these bits.		Comment Type E Comment Status D Change "1.86.15:13" to "1.86.15:14".	
[Comment provided by Edward T	[urner]			[Comment provided by Edward Turner]	
SuggestedRemedy Add subsections and descriptive	text.			SuggestedRemedy See comment.	
Proposed Response Respon	nse Status O			Proposed Response Response Status O	
C/ 45 SC Table 45-10z Law, David	P 105 3Com	L 29	# 109	C/ 45 SC Table 45-3 P 85 L 32 # 90 Law, David 3Com	
Comment Type E Comm Change "1.86.15:13" to "1.86.15:	nent Status D :14".			Comment Type E Comment Status D Don't need "RO" in note. Add "R/W" and "SC" definitions to note.	
[Comment provided by Edward T	[urner]			[Comment provided by Edward Turner]	
SuggestedRemedy See comment.				SuggestedRemedy See comment.	
Proposed Response Respon	nse Status O			Proposed Response Response Status O	

		P802.3ah	n Draft 3.1 Comments
C/ 45 SC Table 45-32 P 113 Law, David 3Com	L 40	# 18	C/ 45 SC Table 45-5 P 86 L 19 # 69 Law, David 3Com
Comment Type T Comment Status D An extra bit (3.4.1) has been added.			Comment Type T Comment Status D Need to add a subsection with text to describe the behaviour of this bit.
[Comment provided by Edward Turner]			[Comment provided by Edward Turner]
SuggestedRemedy Need to add the bit definition text in as a subsection	as well just after	the table.	SuggestedRemedy See comment.
Proposed Response Response Status O			Proposed Response Response Status O
C/ 45 SC Table 45-42a P 114 Law, David 3Com	L 21	# 99	C/ 45 SC Table 45-5 P 86 L 7 # 89 Law, David 3Com
Comment Type E Comment Status D Remove "R/W" definition from note.			Comment Type T Comment Status D Change "1.4.15:13" to "1.4.15:3".
[Comment provided by Edward Turner] SuggestedRemedy See comment.			[Comment provided by Edward Turner] SuggestedRemedy See comment.
Proposed Response Response Status O			Proposed Response Response Status O
C/ 45 SC Table 45-42b P 114 Law, David 3Com	L 54	# <u>100</u>	C/ 45 SC Table 45-58 P 112 L 6 # 20 Law, David 3Com
Comment Type E Comment Status D Change "R/O" to "RO" in note.			Comment TypeTRComment StatusDIt appears two bits have be allocated the same address, 3.72. Change the second occurrence of 3.72 to be 3.73 and change the Reserved bits to be 3.74 through 3.32 767.
[Comment provided by Edward Turner] SuggestedRemedy			[Comment provided by Edward Turner]
See comment.			SuggestedRemedy Change 3.72 to 3.73, and change 3.73 to 3.74 on the next line.
Proposed Response Response Status O			Proposed Response Response Status O

C/ 45 SC Table 45-59a P121 L 20 # 78 C/ 45 SC Tbl. 45-10 P96 L 31 # 616 Law. David 3Com Law. David 3Com Comment Status D Comment Type **T** Comment Status D Comment Type Е It may be useful to indicate which registers are the '-O' PHY only in this table. If so, add '('-Too many "=" symbols is confusing. Change "..length = 144" to "..length of 144" O' PHY only)' to 6.16, 6.17?, 6.18-20, 6.21, 6.22-23. Also on the next line and in table 45-10 [Comment provided by Edward Turner] Comment from Ed Turner. SuggestedRemedy SuggestedRemedy See comment. Proposed Response Response Status 0 Proposed Response Response Status **O** C/ 45 SC Table 45-59c P123 L19 # 101 C/ 45 SC Tbl. 45-10a P87 L12 # 605 Law. David 3Com Law. David 3Com Comment Type E Comment Status D Comment Type T Comment Status D Add "R/W" definition to note. The word "shall" appears twice in this table. We do not usually put "shalls" in tables, and in this case they are unneccessary since section 45.2.1.11.4 has the "shalls" for these bits. [Comment provided by Edward Turner] Replace them in the table with something else. SuggestedRemedy Comment from Ed Turner. See comment. SuggestedRemedy Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 45 SC Table 45-59i P126 L 26 # 19 Law, David 3Com C/ 45 SC Tbl. 45-10a P87 L5# 612 Comment Type Т Comment Status D Law, David 3Com There are no subsections to describe the behaviour of these bits. Comment Type E Comment Status D [Comment provided by Edward Turner] Swap over the "0" and "1" lines so that the "1" line is above the "0" line. SuggestedRemedy Comment from Ed Turner. Add subsections and descriptive text. SuggestedRemedy Proposed Response Response Status 0 Proposed Response Response Status **O**

SC Tbl. 45-10a

			P802.3an D	rait 3.1 Comments				
C/ 45 SC Tbl. 45 Law, David	-10o P 96 3Com	L 10	# 610	C/ 45 SC T Law, David	bl. 45-2	Р 84 3Com	L 5	# 615
Comment Type T	Comment Status D	m required"		Comment Type		omment Status D ne "10P/2B link partner	electrical length	register"
Comment from Ed Tu	urner.			Comment from	Ed Turner.			
SuggestedRemedy				SuggestedRemedy Correct it here.				
Proposed Response	Response Status 0			Proposed Respons	e Res	sponse Status O		
C/ 45 SC Tbl. 45	-10w P101	L	# 618	C/ 45 SC T	bl. 45-59a	P 121	L 14	# 604
Law, David	3Com			Law, David		3Com		
Comment Type E	Comment Status D			Comment Type	TR Co	mment Status D		
	ng from the tables between the n between each bit in all the ta urner.		ntout dodgy? There	needed for bits	like reset and the other MM	t have the ´standard´ cơ speed ability / setting. Ds that allow an STA tơ the TC MMD.	There's also two	bits (device present)
SuggestedRemedy				Comment from	Ed Turner.			
Proposed Response	Response Status O			SuggestedRemedy				
C/ 45 SC Tbl. 45	-10z P 104	L11	# 623	Proposed Response	e Res	sponse Status O		
Law, David	3Com			C/ 56 SC 5	6	P188	L 15	# 658
Comment Type E Add a space between	Comment Status D			Dawe, Piers		Agilent		
Comment from Ed Tu				Comment Type Space after per		omment Status D		
SuggestedRemedy				SuggestedRemedy				
Also in 9 other places	s in this table.							
Proposed Response	Response Status 0			Proposed Respons	e Res	sponse Status O		

Cl 56 Booth, Brad	SC 56.1	P 158 Intel	L 17	# 99346	C/ 56 SC 5 Dawe, Piers	56.1	P 188 Agilent	L13	# 656
Comment 7		Comment Status A		D3.0 #760	Comment Type	Е	Comment Status D		
	51	should be showing the relation	onship of the EFN		kms	-			
	and the OSI refe	rence model.			SuggestedRemedy	/			
Suggested	,				Use nonbreaki	ing spac	e between 10 and km; delete t	he s	
2BASE	-IL and 10PAS	S-TS can be merged in 56-1.			Proposed Respons	se	Response Status O		
		ack and remove brackets sho							
		he P2MP clause. The name JM should be shown as a sh			C/ 56 SC 5	56.1	P188	L 28	# 306
		d be listed under the MEDIUN	M.		Dawe, Piers		Agilent		
Proposed F	•	Response Status U			Comment Type	т	Comment Status D		
ACCEF	PT IN PRINCIPL	E.					type of MAC OAM sublayer a		
For the	e Cu stacks, we v	vill merge the two into one sta	ack.		'RECONCILIA figure 22-1 or 3		in fact two distinct things: clau	se 22 RS and c	lause 35 RS. Look at
					0				
The co	mmenter is corre	ect that the P2MP diagram ap	opears in subsec	quent clauses.	SuggestedRemedy	/			
Howev	er,since this is a	new means of operating on a	a shared mediun		Show separate	e RSs fo	llowing Figure 22-1 or 35-1. L	abel them '10/10	00 Mb/s RS', '100 Mb/s
Howev	er,since this is a		a shared mediun		Show separate RS' and/or '100	e RSs fo 00 Mb/s	RS' as appropriate. Add 'RS =	abel them '10/10 = RECONCILIA	00 Mb/s RS', '100 Mb/s TION SUBLAYER' to
Howev topolog The jag	er,since this is a gy in the introduc gged edges are o	new means of operating on tion (as it is different from the correct as is since there are n	a shared mediun e point-to-point). no additional OLT	n it warrants its own Ts to the left of the	Show separate RS' and/or '100 the abbreviatio	e RSs fo 00 Mb/s ons list a	RS' as appropriate. Add 'RS = t bottom of figure.	abel them '10/10 = RECONCILIA	00 Mb/s RS', '100 Mb/s TION SUBLAYER' to
Howev topolog The jag shown	er,since this is a gy in the introduc gged edges are o stack. The jagge	new means of operating on a tion (as it is different from the	a shared mediun point-to-point). no additional OLT that the medium	n it warrants its own Ts to the left of the n could go on with	Show separate RS' and/or '100	e RSs fo 00 Mb/s ons list a	RS' as appropriate. Add 'RS =	abel them '10/10 = RECONCILIA ⁻	00 Mb/s RS', '100 Mb/s TION SUBLAYER' to
Howev topolog The jag shown addition	er,since this is a gy in the introduc gged edges are o stack. The jagge nal ONUs (and C	new means of operating on tion (as it is different from the correct as is since there are n ed edge to the right indicates	a shared mediun e point-to-point). no additional OLT that the medium in contrast to OI	n it warrants its own Ts to the left of the n could go on with NUs).	So Show separate RS' and/or '100 the abbreviatio Proposed Respons	e RSs fo 00 Mb/s ons list a se	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O	= RECONCILIA	TION SUBLAYER' to
Howev topolog The jag shown addition Indicati	er,since this is a gy in the introduc gged edges are o stack. The jagge nal ONUs (and C	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular Is communicate with the OLT	a shared mediun e point-to-point). no additional OLT that the medium in contrast to OI	n it warrants its own Ts to the left of the n could go on with NUs).	Show separate RS' and/or '100 the abbreviatio	e RSs fo 00 Mb/s ons list a se	RS' as appropriate. Add 'RS = t bottom of figure.	abel them '10/10 = RECONCILIA ⁻ <i>L</i> 32	00 Mb/s RS', '100 Mb/s TION SUBLAYER' to # 199
Howev topolog The jag shown addition Indicate	er,since this is a gy in the introduc gged edges are o stack. The jagge nal ONUs (and C ion that the ONU ed by way of arro	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular Is communicate with the OLT	a shared medium point-to-point). to additional OL ^T that the medium in contrast to OI but not with eac	n it warrants its own Ts to the left of the n could go on with NUs). ch other will be	Cl 56 SC 5 Beck, Michael	e RSs fo 00 Mb/s ons list a se	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O <i>P</i> 188	= RECONCILIA	TION SUBLAYER' to
Howev topolog The jag shown addition Indicati indicate The stu	er, since this is a gy in the introduc gged edges are of stack. The jagge nal ONUs (and C ion that the ONU ed by way of arro ub on the left will	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular is communicate with the OLT ows or curvature. be removed. The connecteri	a shared medium point-to-point). that the medium in contrast to Of but not with eac zation on the GM	n it warrants its own Ts to the left of the o could go on with NUs). ch other will be	Cl 56 SC 5 Beck, Michael Comment Type	e RSs fo 00 Mb/s ons list a se 66.1 TR	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O <i>P</i> 188 Alcatel Bell nv	= RECONCILIA	TION SUBLAYER' to
Howev topolog The jag shown addition Indicati indicate The stu	er, since this is a gy in the introduct gged edges are of stack. The jagge nal ONUs (and C ion that the ONU ed by way of arrous bon the left will SC 56.1	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular as communicate with the OLT ows or curvature.	a shared medium point-to-point). to additional OL ^T that the medium in contrast to OI but not with eac	n it warrants its own Ts to the left of the n could go on with NUs). ch other will be	Cl 56 SC 5 Beck, Michael Comment Type	e RSs fo 00 Mb/s ons list a se 56.1 TR stack, th	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O <i>P</i> 188 Alcatel Bell nv <i>Comment Status</i> D	= RECONCILIA	TION SUBLAYER' to
Howev topolog The jag shown addition Indicati indicate The stu C/ 56 Dawe, Piers	er, since this is a gy in the introduct gged edges are of stack. The jagged nal ONUs (and C ion that the ONU ed by way of arroub on the left will SC 56.1 s	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular s communicate with the OLT ows or curvature. be removed. The connecteri P188	a shared medium point-to-point). that the medium in contrast to Of but not with eac zation on the GM	n it warrants its own Ts to the left of the o could go on with NUs). ch other will be	Show separate RS' and/or '100 the abbreviatio Proposed Respons Cl 56 SC 5 Beck, Michael Comment Type In the copper s SuggestedRemedy In Figure 56-1,	e RSs fo 00 Mb/s ons list a se i6.1 TR stack, th y , add a 1	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O <i>P</i> 188 Alcatel Bell nv <i>Comment Status</i> D e TC sublayer is missing. ^C C sublayer between "Cu PCS	= RECONCILIA ⁻ <i>L</i> 32 " and "PMA".	TION SUBLAYER' to
Howev topolog The jag shown addition Indicati indicate The stu Cl 56 Dawe, Piers	er, since this is a gy in the introduct gged edges are of stack. The jagged nal ONUs (and C ion that the ONU ed by way of arroub on the left will SC 56.1 s <i>Type</i> E	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular as communicate with the OLT ows or curvature. be removed. The connectering P188 Agilent	a shared medium point-to-point). that the medium in contrast to Of but not with eac zation on the GM	n it warrants its own Ts to the left of the o could go on with NUs). ch other will be	Cl 56 SC 5 Beck, Michael Comment Type In the copper s SuggestedRemedy In Figure 56-1, In Table 56-2,	e RSs fo 00 Mb/s ons list a se 56.1 TR stack, th y , add a 1 replace	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O <i>P</i> 188 Alcatel Bell nv <i>Comment Status</i> D e TC sublayer is missing. 'C sublayer between "Cu PCS column "Cu PCS" with "Cu PC	= RECONCILIA ⁻ <i>L</i> 32 " and "PMA".	TION SUBLAYER' to
Howev topolog The jag shown addition Indicati indicate The stu Cl 56 Dawe, Piers Comment T	er, since this is a gy in the introduce gged edges are of stack. The jagge nal ONUs (and C ion that the ONU ed by way of arrow ub on the left will SC 56.1 s Type E mode	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular as communicate with the OLT ows or curvature. be removed. The connectering P188 Agilent	a shared medium point-to-point). that the medium in contrast to Of but not with eac zation on the GM	n it warrants its own Ts to the left of the o could go on with NUs). ch other will be	Show separate RS' and/or '100 the abbreviatio Proposed Respons Cl 56 SC 5 Beck, Michael Comment Type In the copper s SuggestedRemedy In Figure 56-1,	e RSs fo 00 Mb/s ons list a se 56.1 TR stack, th y , add a 1 replace	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O <i>P</i> 188 Alcatel Bell nv <i>Comment Status</i> D e TC sublayer is missing. ^C C sublayer between "Cu PCS	= RECONCILIA ⁻ <i>L</i> 32 " and "PMA".	TION SUBLAYER' to
Howev topolog The jag shown addition Indicati indicate The stu C/ 56 Dawe, Piers Comment T single r	er, since this is a gy in the introduce gged edges are of stack. The jagge nal ONUs (and C ion that the ONU ed by way of arrow ub on the left will SC 56.1 s Type E mode	new means of operating on a tion (as it is different from the correct as is since there are n ed edge to the right indicates DLT is mentioned as singular as communicate with the OLT ows or curvature. be removed. The connectering P188 Agilent	a shared medium point-to-point). that the medium in contrast to Of but not with eac zation on the GM	n it warrants its own Ts to the left of the o could go on with NUs). ch other will be	Cl 56 SC 5 Beck, Michael Comment Type In the copper s SuggestedRemedy In Figure 56-1, In Table 56-2,	e RSs fo 00 Mb/s ons list a se 56.1 TR stack, th y , add a 1 replace	RS' as appropriate. Add 'RS = t bottom of figure. <i>Response Status</i> O <i>P</i> 188 Alcatel Bell nv <i>Comment Status</i> D e TC sublayer is missing. 'C sublayer between "Cu PCS column "Cu PCS" with "Cu PC	= RECONCILIA ⁻ <i>L</i> 32 " and "PMA".	TION SUBLAYER' to

Dawe, Piers Agilent		Cl 56 Dawe, Piers	SC 56.1.2.2	P 190 Agilent) L17	# 358
Comment Type T Comment Status D It isn't as simple as this, at least not in D3.1: 'MAC is configured in half of 61.1.4.1.2 and 61.7.	luplex mode'. See		subclause w	Comment Status I e need to briefly refer t		RS.
SuggestedRemedy Change 'is' to 'may be'.		SuggestedRe Add sente by OAM f	ence: 'An optio	onal modification of the	10 Gb/s RS allows	for remote fault signaling
Proposed Response Response Status O		Proposed Rea	sponse	Response Status	D	
CI 56 SC 56.1.1 P189 L 37	# 309	C/ 56	SC 56.1.2.2	P 190) L17	# 308
Dawe, Piers Agilent		Dawe, Piers		Agilent		
Comment Type TR Comment Status D		Comment Typ	e TR	Comment Status	ט	
66 PCS/PMAs. They are not just for the access market; such ports hav multiple NEMs for years now. To change the rules now would cause co possibly interoperability issues, damaging to both Ethernet access and n Ethernet markets, because it is not likely that the real world will obey D3 EFM would be the loser, being cut off from the economies of scale of ma Ethernet).	nfusion and mainstream 1 rules (if it does, ainstream	that does 10G MDI PHYs. Fo this draft.	n't mean it's th D clause 45, b urther, if it's cl	e case: one would not out they do. Or, there o	obviously expect lo could be new PHY-s	s 'obviously' clause 22, ow-speed PHYs to use the specific RSs for these S-TS? I can't tell from
Enternet). 1000BASE-LX10 and 1000BASE-LX are interoperable, and work on MN It should be unnecessary for a DTE in a CO to need different PCS rules ports (with probably the SAME GBICs in them) depending whether they core network or the access network!	for different GBIC	better my	the situation suggestion: 'l			copper track to correct and reconciliation sublayer of
		D				
SuggestedRemedy		Proposed Res	sponse	Response Status	0	
SuggestedRemedy Change '66.1 and 66.2, respectively.'24, 36, 37 66.1 and/or 66.2'. See o comments.	other related	·				# 050
Change '66.1 and 66.2, respectively.'24, 36, 37 66.1 and/or 66.2'. See comments.	other related	·	SC 56.1.3	Response Status P190 Agilent		# 659
Change '66.1 and 66.2, respectively.'24, 36, 37 66.1 and/or 66.2'. See a comments. Proposed Response Response Status O Cl 56 SC 56.1.1 P189 L 39	other related	Cl 56 Dawe, Piers Comment Typ	SC 56.1.3	P 190 Agilent Comment Status) L21	# 659
Change '66.1 and 66.2, respectively.'24, 36, 37 66.1 and/or 66.2'. See a comments. Proposed Response Response Status O Cl 56 SC 56.1.1 P189 L 39 Dawe, Piers Agilent Comment Type E Comment Status D	other related # 310	Cl 56 Dawe, Piers Comment Typ	SC 56.1.3 De E g is missing a <i>medy</i>	P 190 Agilent Comment Status) L21	# <u>659</u>
Change '66.1 and 66.2, respectively.'24, 36, 37 66.1 and/or 66.2'. See comments. Proposed Response Response Status O CI 56 SC 56.1.1 P189 L 39 Dawe, Piers Agilent	ther related	Cl 56 Dawe, Piers Comment Typ LX10(long SuggestedRe	SC 56.1.3 De E g is missing a <i>medy</i> g	P 190 Agilent Comment Status) <i>L</i> 21	# <u>659</u>
Change '66.1 and 66.2, respectively.'24, 36, 37 66.1 and/or 66.2'. See a comments. Proposed Response Response Status O Cl 56 SC 56.1.1 P 189 L 39 Dawe, Piers Agilent Comment Type E Comment Status D Missing spaces, broken quantity. Abbreviate 'meters'. SuggestedRemedy	ther related	Cl 56 Dawe, Piers Comment Typ LX10(long SuggestedRe LX10 (long	SC 56.1.3 De E g is missing a <i>medy</i> g	P 190 Agilent <i>Comment Status</i> I space) <i>L</i> 21	# 659
Change '66.1 and 66.2, respectively.'24, 36, 37 66.1 and/or 66.2'. See a comments. Proposed Response Response Status O Cl 56 SC 56.1.1 P 189 L 39 Dawe, Piers Agilent Comment Type E Comment Status D Missing spaces, broken quantity. Abbreviate 'meters'. SuggestedRemedy 2 Mb/s 10 Mb/s 750 <nonbreakingspace>m</nonbreakingspace>	ther related	Cl 56 Dawe, Piers Comment Typ LX10(long SuggestedRe LX10 (long	SC 56.1.3 De E g is missing a <i>medy</i> g	P 190 Agilent <i>Comment Status</i> I space) <i>L</i> 21	# <u>659</u>

			F 002.3dll L				
C/ 56 SC 56.1.3 Dawe, Piers	3 P190 Agilent	L 36	# 311	C/ 56 SC 56.1.3 Dawe, Piers	P 191 Agilent	L 54	# 660
Comment Type E	Comment Status D			Comment Type E	Comment Status D		
This sentence read are like adjectives.	s oddly, I think because port des	criptors such as	1000BASE-PX10-D	Double period			
SuggestedRemedy				SuggestedRemedy			
Easy fix - delete 'the	e' before each '1000BASE-' (four	times).		Dramana d Daamanaa			
Proposed Response	Response Status 0			Proposed Response	Response Status O		
C/ 56 SC 56.1.3	3 <i>P</i> 190	L 50	# 313	C/ 56 SC 56.1.3	P 191	L 8	# 312
Dawe, Piers	Agilent	200	# 515	Dawe, Piers	Agilent		
Comment Type E	Comment Status D			Comment Type E	Comment Status D		
	ph we have an informative sente	nce telling us tha	at 2BASE-TL isn't just a	Broken quantity			
EFM special but ha	is something in common with oth	er standards.		SuggestedRemedy	as howen 2 and Mh/s		
SuggestedRemedy				Proposed Response	ce between 2 and Mb/s. Response Status 0		
perhaps like: This National Standard T uses passband	al, insert something similar betwee PMD is derived from the VDSL t T1.424 and at time of writing, und track to write/vet what they want	ransceiver speci der discussion as	fied in American	C/ 56 SC 56.1.3	P192	L 15	# 317
Proposed Response	Response Status O			Dawe, Piers	Agilent		
				Comment Type TR	Comment Status D		
	. .				BASE-LX10 into an 'access-on ng to be an upgraded 1000BA		
C/ 56 SC 56.1.3 Dawe, Piers	3 P 190 Agilent	L 52	# 314	1000BASE-LH. See I	EFM objectives:		
	Comment Status D			P802.3ah has objectiv 1000BASE-LX exter	ves: nded temperature range optic:	s, and	
Comment Type E only in the wrong pl				1000BASE-X up to	10km over SM fiber.		
SuggestedRemedy					n made by multiple NEMs for on, deprive the traditional Ethe		
Change 'A connecti	ion can only be established betw tween'. Or, shorter: 'A connectio		ction can be	standardization, and c	leprive the access Ethernet m le. EFM has to accept that tra	arket of Ethernet	consistency, simplici
Proposed Response	Response Status 0			SuggestedRemedy			
				Change intersection o spelled out, add colun	f 1000BASE-LX10 and 66 fro nn for clause 36 and 37 PCS, ake the header columns much	intersection with	1000BASE-LX10
				Proposed Response	Response Status O		

C/ 56 SC 56.1.3 P 192 L 15 # 316 Dawe, Piers Agilent Agilent <t< th=""><th>C/ 56 SC 56.1.3 P 192 L 9 # 315 Dawe, Piers Agilent</th></t<>	C/ 56 SC 56.1.3 P 192 L 9 # 315 Dawe, Piers Agilent
Comment Type TR Comment Status D We cannot say that 100BASE-LX10 needs a non-traditional PCS. These kinds of ports have been made by multiple NEMs for years - changing the rules now would cause market confusion, obstruct the market which the 100 Mb/s call for interest (folded into EFM) was	Comment Type E Comment Status D Spelling SuggestedRemedy
set up to serve, and possibly cause interoperability problems. That call for interest was told that 'PHY identical to current 100Mbps Std except for a new PMD - No change to Clause 24	Change 'BAS-' to 'BASE-' several times. Proposed Response Response Status O
 Retain all state machines, 4B/5B coding etc. of 100BASE-X o Only need to extend Clause 26, 100BASE-FX PMD, to include SMF' and '100BASE-X dual SMF is already happening, and will have applicability even outside EFM 	C/ 56 SC 56.1.5 P 192 L 42 # 661 Dawe, Piers Agilent
 o However, 100BASE-X SMF will be used in the public access application space o 100BASE-X PCS is transparent to EFM OAM - Neither "OAM in Frames" nor "OAM on Preamble" require any changes to 100BASE-X PCS' http://www.ieee802.org/3/smfx_study/index.html http://www.ieee802.org/3/smfx_study/public/jonsson_1_0302.pdf 	Comment Type E Comment Status D Don't we construct the standard with management being treated as special - e.g. pervasive? So 56.1.4 shouldn't come betweeen two PHY paragraphs. SuggestedRemedy Put the 'Unidirectional transmission' subclause after 56.1.3 (or after 56.1.2)
We need to honor these expectations. SuggestedRemedy	Proposed Response Response Status O
Change intersection of 100BASE-LX10 and 66 from M to O or blank. If it needs to be spelled out, add column for clause 24 PCS, PMA, intersection with 100BASE-LX10 being M or O. Can make the header columns much taller (like tables 30-1) to fit the extra column in.	C/ 56 SC 56.1.5 P 192 L 42 # 662 Dawe, Piers Agilent
Proposed Response Response Status O	Comment Type E Comment Status D Trailing space in title?
C/ 56 SC 56.1.3 P 192 L 25 # 359 Dawe, Piers Agilent	SuggestedRemedy Proposed Response Response Status O
Comment Type TR Comment Status D This table looks comprehensive but it isn't quite and we mustn't mislead. Need to acknowledge changes to 10G.	C/ 56 SC 56.1.5 P192 L45 # 663
SuggestedRemedy	Dawe, Piers Agilent
Add a third clause 66 column, title 10 Gb/s RS, and another row, title 10GBASE. Intersection is O. Intersection of OAM and 10G is also O I think. Can make the header columns much taller (like tables 30-1) to fit the extra column in.	Comment Type E Comment Status D an 1000BASE-
Proposed Response Response Status O	SuggestedRemedy "a 1000BASE- (sorry, my mistake in my comment)"
	Proposed Response Response Status O

C/ 56 SC 56.1.5 Brown, Benjamin	P 192 Independent	L 45	# 127	Cl 57 SC 57.1.2 Dawe, Piers	2 P 166 Agilent	L 27	# 99317
Comment Type E Wrong word	Comment Status D			Comment Type TR 'Don't mess with th	Comment Status R e legacy Ethernet.'		D3.0 #313
SuggestedRemedy Replace "necessary for	r an" with "necessary for a"			Section a) is partly	unworkable.		
Proposed Response	Response Status O				nt, lives in the PCS/PMA, no now where it is. It doesn't kn		
Cl 57 SC Braga, Aldobino Comment Type E Lots of broken cross-re SuggestedRemedy Please fix. Proposed Response	P UNH-IOL Comment Status D eferences. Response Status O	L	# <u>175</u>	58 and 59, 100BAS time; it's too late to effective, graceful e using 'legacy' comp LX10 are not just a home in 'traditional 1000BASE-LX are old and new and fo make sense to try f either: we don't hav need one. There a owns the network of Clause 66 RS, PCS (except for 1000BA For info, clause 22 There is no strong any situation, as th be invoked without 57.1.2 needs to be These clarifications feature would appe SuggestedRemedy Change 57.1.2 a) 2 '2) 100BASE-X, 10 unidirectional opera Change a)3) to: '3) 1000BASE-PX- unidirectional opera indication from OL	00BASE-X and 10 Gb/s phys ation thus allowing OAM remo D physical layer devices, defi ation in the direction from OL Γ during fault conditions. Uni d as it is likely to cause interf	0 like PHYs have b true Ethernet and v kets such as subsc ards. 100BASE-LX er access networks: works. Further, 10 d for attachment to tworks: campus an- ch additional feature 'subscriber access int engineering spec onal in Table 56-2. al enable and Unid lirectional capability s optional, and the ssible functionality) h table 56-2 and co uporters what they v iseful.	even shipping for some very bad for the cost- criber access networks (10 and 1000BASE- : they are equally at 00BASE-LX10 and 0 the same PCSs - both d wider. And it doesn't es to network type network" nor do we cs, no definition of who That's as it should be irectional ability. y feature mandatory in OAM sublayer can still b mmon sense. want: the unidirectional may be capable of during fault conditions.'; and 66.2, support ys OAM remote fault n in the other direction
				Proposed Response REJECT.	Response Status U		

C/ 57 SC 57.1.2

See comment #380				CI 57 SC Dawe, Piers	57.1.2	P 196 Agilent	L 36	# 321
PMDs defined in C	lauses 58 and 59 do support unio	directional opera	tion.	Comment Type	TR	Comment Status D		
C/ 57 SC 57.1.	2 P 196	L 30	# 318			may'. This could be read as		
Dawe, Piers	Agilent					ing from part to part), any ot sical layer device might be f		
Comment Type TR	Comment Status D			other types of	of physical la	yer device are allowed to. I	By calling out 66	6.1 and 66.2 in bullet 2,
physical layer device	e issue of what a physical layer o ces in 58 and 59 are not all just 's E-LX10 and 1000BASE-LX10 are	subscriber acces	s physical layer	remaining si	ent instead	ese problems go away. We of giving non-information. E onal transmission of frames	But to be fair to t	onfusion point by he reader, we need to
purpose use (inclue	ding multimode fiber for the latter). Naturally, bec	ause single mode fiber	SuggestedReme	dy			
good for both appli	traditional as in access networks cations.	s, the same phys	sical layer devices are			SE-TL, 10PASS-TS, 1000BA		
SuggestedRemedy						eration but can support othe 1000BASE-T have specific		
,	access' from bullet 2.			the physical				
Proposed Response	Response Status 0			Proposed Respo	nse	Response Status O		
	2 <i>P</i> 196	L 30	# 319	CI 57 SC	57.1.2	P 196	L 53	# 158
Dawe, Piers	Agilent			Braga, Aldobino		UNH-IOL		
Comment Type TR	Comment Status D			Comment Type	т	Comment Status D		
	ne PMDs, which I don't think are MDs (but not all) are oblivious to supports it.					rt a subset of the user-plane Y.1730 - Requirements for C		
These particular PI material in 66 that	MDs (but not all) are oblivious to			Recommend networks."	lation ITU-T	Y.1730 - Requirements for C	DAM functions ir	n Ethernet based
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe	MDs (but not all) are oblivious to	unidirectional op defined in Clause	eration. It's the e 58 and Clause 59,' to	Recommend networks." Clauses do r The objectiv	lation ITU-T not typically es were crea who posed th	Y.1730 - Requirements for C have to justify their existenc ated independent of this doo ne question of whether OAM	DAM functions in e with a docume ument. Was it t	n Ethernet based ent from the ITU-T? the intent of the
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'.	MDs (but not all) are oblivious to supports it. r access physical layer devices, o	unidirectional op defined in Clause	eration. It's the e 58 and Clause 59,' to	Recommend networks." Clauses do r The objectiv commenter v	lation ITU-T not typically es were crea who posed th n this clause	Y.1730 - Requirements for C have to justify their existenc ated independent of this doo ne question of whether OAM	DAM functions in e with a docume ument. Was it t	n Ethernet based ent from the ITU-T? the intent of the
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'.	MDs (but not all) are oblivious to supports it. r access physical layer devices, o 0 Mb/s {ports physical layer devic	unidirectional op defined in Clause	eration. It's the e 58 and Clause 59,' to	Recommend networks." Clauses do r The objectiv commenter v referenced in	lation ITU-T not typically es were crea who posed th n this clause dy	Y.1730 - Requirements for C have to justify their existenc ated independent of this doo ne question of whether OAM	DAM functions in e with a docume ument. Was it t	n Ethernet based ent from the ITU-T? the intent of the
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'. Proposed Response	MDs (but not all) are oblivious to supports it. r access physical layer devices, o 0 Mb/s {ports physical layer devic <i>Response Status</i> O	unidirectional op defined in Claus es} using the Ph	eration. It's the e 58 and Clause 59,' to HY layers defined in	Recommend networks." Clauses do r The objectiv commenter v referenced in SuggestedReme	lation ITU-T not typically es were crea who posed th n this clause dy sentence.	Y.1730 - Requirements for C have to justify their existenc ated independent of this doo ne question of whether OAM	DAM functions in e with a docume ument. Was it t	n Ethernet based ent from the ITU-T? the intent of the
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'. Proposed Response	MDs (but not all) are oblivious to a supports it. r access physical layer devices, o 0 Mb/s {ports physical layer devic <i>Response Status</i> O 2 <i>P</i> 196	unidirectional op defined in Clause	eration. It's the e 58 and Clause 59,' to	Recommend networks." Clauses do r The objective commenter v referenced in SuggestedReme Remove the	lation ITU-T not typically es were crea who posed th n this clause dy sentence.	Y.1730 - Requirements for C have to justify their existenc ated independent of this doo ne question of whether OAM /document?	DAM functions in e with a docume ument. Was it t	n Ethernet based ent from the ITU-T? the intent of the
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'. Proposed Response CI 57 SC 57.1.2 Dawe, Piers	MDs (but not all) are oblivious to e supports it. r access physical layer devices, o D Mb/s {ports physical layer devic <i>Response Status</i> O 2 <i>P</i> 196 Agilent	unidirectional op defined in Claus es} using the Ph	eration. It's the e 58 and Clause 59,' to HY layers defined in	Recommend networks." Clauses do n The objective commenter v referenced in SuggestedReme Remove the Proposed Respon	lation ITU-T not typically es were crea who posed th n this clause dy sentence.	Y.1730 - Requirements for C have to justify their existenc ated independent of this doo ne question of whether OAM /document?	DAM functions in e with a docume ument. Was it t	n Ethernet based ent from the ITU-T? the intent of the b have that document
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'. Proposed Response CI 57 SC 57.1.2 Dawe, Piers Comment Type TR Clause 60 defines	MDs (but not all) are oblivious to a supports it. r access physical layer devices, o D Mb/s {ports physical layer devic <i>Response Status</i> O 2 <i>P</i> 196 Agilent <i>Comment Status</i> D PMDs, which I don't think are the	unidirectional op defined in Claus ces} using the Ph <i>L</i> 33	e 58 and Clause 59,' to HY layers defined in # 320	Recommend networks." Clauses do n The objective commenter v referenced in SuggestedReme Remove the Proposed Respon	lation ITU-T not typically es were crea who posed th n this clause dy sentence.	Y.1730 - Requirements for C have to justify their existenc ated independent of this doc ne question of whether OAM /document? Response Status O	DAM functions in e with a docume ument. Was it t 1 will be used, to	n Ethernet based ent from the ITU-T? the intent of the
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'. Proposed Response CI 57 SC 57.1.2 Dawe, Piers Comment Type TR Clause 60 defines	MDs (but not all) are oblivious to e supports it. r access physical layer devices, o D Mb/s {ports physical layer devic <i>Response Status</i> O 2 P 196 Agilent <i>Comment Status</i> D	unidirectional op defined in Claus ces} using the Ph <i>L</i> 33	e 58 and Clause 59,' to HY layers defined in # 320	Recommend networks." Clauses do r The objective commenter v referenced in SuggestedReme Remove the Proposed Respondent	lation ITU-T not typically es were crea who posed th n this clause dy sentence.	Y.1730 - Requirements for C have to justify their existence ated independent of this doo ne question of whether OAM /document? Response Status O P196	DAM functions in e with a docume ument. Was it t 1 will be used, to	n Ethernet based ent from the ITU-T? the intent of the b have that document
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'. Proposed Response CI 57 SC 57.1.2 Dawe, Piers Comment Type TR Clause 60 defines the material in 66 th SuggestedRemedy	MDs (but not all) are oblivious to a supports it. r access physical layer devices, o D Mb/s {ports physical layer device Response Status O 2 P196 Agilent Comment Status D PMDs, which I don't think are the hat supports unidirectional operation	unidirectional op defined in Clause tes} using the Ph <i>L</i> 33	e 58 and Clause 59,' to HY layers defined in # 320 cal layer devices'. It's	Recommend networks." Clauses do r The objective commenter v referenced in SuggestedReme Remove the Proposed Respondent Cl 57 SC Dawe, Piers Comment Type	lation ITU-T not typically es were crea who posed th n this clause dy sentence. mse 57.1.2 E	Y.1730 - Requirements for C have to justify their existence ated independent of this doc ne question of whether OAM /document? <i>Response Status</i> O <i>P</i> 196 Agilent	DAM functions in e with a docume ument. Was it t 1 will be used, to	n Ethernet based ent from the ITU-T? the intent of the b have that document
These particular PI material in 66 that s SuggestedRemedy Change 'Subscribe '100 Mb/s and 1000 66.1 or 66.2'. Proposed Response CI 57 SC 57.1.2 Dawe, Piers Comment Type TR Clause 60 defines the material in 66 th SuggestedRemedy Change 'physical lay {ports physical laye	MDs (but not all) are oblivious to a supports it. r access physical layer devices, o D Mb/s {ports physical layer devic <i>Response Status</i> O 2 <i>P</i> 196 Agilent <i>Comment Status</i> D PMDs, which I don't think are the	unidirectional op defined in Clause tes} using the PF <i>L</i> 33 e same as 'physic tion. 0,' to '1000 Mb/s	eration. It's the e 58 and Clause 59,' to TY layers defined in # 320 cal layer devices'. It's	Recommend networks." Clauses do n The objective commenter v referenced in SuggestedReme Remove the Proposed Respon Cl 57 SC Dawe, Piers Comment Type Add (hopefu	lation ITU-T not typically es were crea who posed th n this clause <i>dy</i> sentence. <i>mse</i> 57.1.2 E Ily active) lin <i>dy</i>	Y.1730 - Requirements for C have to justify their existence ated independent of this doc he question of whether OAM /document? <i>Response Status</i> O <i>P</i> 196 Agilent <i>Comment Status</i> D	DAM functions in e with a docume ument. Was it t 1 will be used, to	the thernet based ent from the ITU-T? the intent of the b have that document # <u>301</u>

Change 'Subscriber access physical layer devices, defined in Clause 59, to '100 Mb/s and 1000 Mb/s (ports)physical layer devices) using the PHY layers defined in 66.1 or 66.2'. The objectives were created independent of this document. Was it the intent of the commenter who posed the question of whether OAM will be used, to have that document? <i>Proposed Response Response Status</i> O <i>Cl</i> 57 SC 57.1.2 P196 <i>L</i> 33 # 320 Dawe, Piers Agilent <i>O Cl</i> 57 SC 57.1.2 P196 <i>L</i> 54 # 301 Clause 60 defines PMDs, which I don't think are the same as 'physical layer devices'. It's the material in 66 that suports unidirectional operation. <i>Cl</i> 57 SC 57.1.2 P196 <i>L</i> 54 # 301 SuggestedRemedy (1000BASE-PX-D (ports)physical layer devices). <i>Cl</i> 1000 Mb/s point-to-multipoint (ports)physical layer devices). <i>Cl</i> 57 SC 57.1.2 P196 <i>L</i> 54 # 301 <i>Proposed Response Response</i> Status D <i>Cl</i> 57 <i>SC</i> 57.1.2 P196 <i>L</i> 54 # 301 <i>Proposed Response Response</i> Status D <i>Cl</i> 57 <i>SC</i> 57.1.2 <i>P</i> 196 <i>L</i> 54 # 301 <i>Proposed Response Response</i> Status D <i>R</i> 4d (lopefully active) link to Annex A.<	is the same stuff in traditional as in access networks, the same physical layer devices are good for both applications. SuggestedRemedy Delete 'Subscriber access' from bullet 2.	Change bullet 4 to '2BASE-TL, 10PASS-TS, 1000BASE-T and 1000BASE-PX-U do not support unidirectional operation but can support other OAM transport on functional links. 2BASE-TL, 10PASS-TS, 1000BASE-T have specific remote fault signaling mechanisms in the physical layer.'
1.3 So 37.1.2 P 196 1.50 * 319 Dawe, Piers Agilent Braga, Aldobino UNH-IOL Comment Type TR Comment Status D Clauses 68-60 define PMDs, which I don't think are the same as 'physical layer devices'. These adjustion ITU-TY.1730 - Requirements for OAM functions in Ethernet based networks." These adjustion ITU-TY.1730 - Requirements for OAM functions in Ethernet based networks." Suggested/Remedy Change 'Subscriber access physical layer devices, defined in Clause 58 and Clause 59, to 100 Mb/s (ports/physical layer devices) using the PHY layers defined in 66.2. Clauses 60 ont typically have to justify their existence with a document from the ITU-T The objectives were created independent of the is document. Was it the internet of the commentation ITU-TY.1730 - Requirements found in Returnet of the commentation ITU-TY.1730 - Requirements for OAM functions in Ethernet based networks." Clauses 60 and typically have to justify their existence with a document from the ITU-T. The objectives were created independent of the is document. Was it the internet of the commentation ITU-TY.1730 - Requirements found in Returnet of the commentation ITU-TY.1730 - Requirements found in Returnet of the commentation in ITU-TY.1730 - Requirements for OAM will be used, to have that document for the ITU-T. The objectives were created independent of the is document. Was it the internet of the commentation in Ethernet based networks." Cl 57 SC 57.1.2 P 196 L 54 # 301 Clause 60 defines PMDs, which I don't think are the same as 'physical layer dev	Proposed Response Response Status O	Proposed Response Response Status O
Clauses 58-60 define PMDs, which I don't think are the same as 'physical layer devices'. These particular PMDs (but not all) are oblivious to unidirectional operation. It's the material in 66 that supports it. "These objectives support a subset of the user-plane OAM requirements found in Recommendation ITU-TY.1730 - Requirements for OAM functions in Ethernet based networks." SuggestedRemedy Change 'Subscriber access physical layer devices, defined in Clause 58 and Clause 59, to '100 Mb/s and 1000 Mb/s (ports)physical layer devices) using the PHY layers defined in 66.1 or 66.2. Clause 60.2. Proposed Response Response Status O Clause 60 define PMDS, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. It's 200 SuggestedRemedy Clause 60 defines PMDS, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. It's 200 SuggestedRemedy Clause 60 defines PMDS, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. It's 200 SuggestedRemedy Clause 60 defines PMDS, which I don't think are the same as 'physical layer devices'. It's 200 SuggestedRemedy Clause 60 defines PMDS, which I don't think are the same as 'physical layer devices'. It's 200 SuggestedRemedy Clause 60 defines PMDS, which I don't think are the same as 'physical layer devices'. It's 200		
Clauses 58-60 define PMDs, which I don't think are the same as 'physical layer devices'. These particular PMDs (but not all) are oblivious to unidirectional operation. It's the material in 66 that supports it. <i>SuggestedRemedy</i> Change 'Subscriber access physical layer devices, defined in Clause 58 and Clause 59, 'to '100 Mb/s and 1000 Mb/s (ports physical layer devices) using the PHY layers defined in 61 or 62. ² . <i>Proposed Response</i> Response Status 0 Clause 60 defines PMDs, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. <i>UtgestedRemedy</i> Change 'physical layer devices, defined in Clause 60, 'to '1000 Mb/s point-to-multipoint (ports physical layer devices), using the PHY layers defined in 36, 60, 65 and 66.2. Or just '100 Mb/s can devices'. It's the material in 66 that supports unidirectional operation. <i>UtgestedRemedy</i> Change 'physical layer devices, defined in Clause 60, 'to '1000 Mb/s point-to-multipoint '1000 Mb/s point-to-multipoint '1000 Mb/s can devices'. <i>Proposed Response</i> Response Status 0 <i>Cl</i> 57 SC 57.1.2 P1 96 <i>L</i> 54 # 301 <i>Clause</i> 60 defines PMDs, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. <i>UtgestedRemedy</i> Change 'physical layer devices, defined in Clause 60, 'to '1000 Mb/s point-to-multipoint '1000 Mb/s apoint-to-multipoint '1000 BASE-PX-D (ports)physical layer devices'). <i>Proposed Response</i> Response Status 0 <i>Proposed Response</i> Response Status 0 <i></i>	-	Comment Type T Comment Status D
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And the sentence of the sentenc	Change 'Subscriber access physical layer devices, defined in Clause 58 and Clause 59,' to '100 Mb/s and 1000 Mb/s {ports physical layer devices} using the PHY layers defined in	commenter who posed the question of whether OAM will be used, to have that document
1 57 SC 57.1.2 P196 L 33 # 320 awe, Piers Agilent comment Type TR Comment Status D Clause 60 defines PMDs, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. Cl 57 SC 57.1.2 P196 L 54 # 301 uggestedRemedy Change 'physical layer devices, defined in Clause 60,' to '1000 Mb/s point-to-multipoint (ports/physical layer devices) using the PHY layers defined in 36, 60, 65 and 66.2'. Or just '1000BASE-PX-D (ports/physical layer devices)'. Comment Type E Comment Status D virtual '1000BASE-PX-D (ports/physical layer devices)'. No SuggestedRemedy No Add (hopefully active) link to Annex A. virtual '1000BASE-PX-D (ports/physical layer devices)'. No Proposed Response Response Status O YPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 66 of 130	roposed Response Response Status O	
Comment Type TR Comment Status D Clause 60 defines PMDs, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. Cl 57 SC 57.1.2 P196 L 54 # 301 Clause 60 defines PMDs, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation. Dawe, Piers Agilent Clause 60 defines PMDs, which I don't think are the same as 'physical layer devices, defined in Clause 60,' to '1000 Mb/s point-to-multipoint {ports physical layer devices} using the PHY layers defined in 36, 60, 65 and 66.2'. Or just '1000BASE-PX-D {ports physical layer devices}'. Comment Type E Comment Status D Add (hopefully active) link to Annex A. SuggestedRemedy Add '[Bn]' or '[B8]' between networks and . IEEE staff to renumber Bn on merge. Proposed Response Response Status O YPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 66 of 130		Proposed Response Response Status O
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the material in 66 that supports unidirectional operation. UggestedRemedy Change 'physical layer devices, defined in Clause 60,' to '1000 Mb/s point-to-multipoint {ports physical layer devices} using the PHY layers defined in 36, 60, 65 and 66.2'. Or just '1000BASE-PX-D {ports physical layer devices}'. roposed Response Response Status O Response Status O Response Status O Response T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 66 of 130		
Image: Status D Comment Status D Indext of the status diagram of the statu		
Change 'physical layer devices, defined in Clause 60,' to '1000 Mb/s point-to-multipoint {ports physical layer devices} using the PHY layers defined in 36, 60, 65 and 66.2'. Or just '1000BASE-PX-D {ports physical layer devices}'. <i>roposed Response</i> Response Status O <i>Proposed Response</i> Status O <i>Proposed Response</i> Status O		
roposed Response Response Status O Proposed Response Response Status O YPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 66 of 130	{ports physical layer devices} using the PHY layers defined in 36, 60, 65 and 66.2. Or just	SuggestedRemedy
YPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 66 of 130		
	roposed Response - Response Status O	Proposed Response Response Status O
	YPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accep ESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	pted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 66 of 130 C/ 57 SC 57.1.2

C/ 57 SC 57.2.11.5	P 209	L 20	# 214	C/ 57	SC 57.2.6	P 203	L 21	# 322
Martin, David	Nortel Networks			Dawe, Piers		Agilent		
Comment Type T Incorrect terminology?	Comment Status D			Comment T issues	51	Comment Status D		
SuggestedRemedy Replace "e.g., point-to-	multipoint," with "e.g., emulated	point-to-point,	н	SuggestedF issued	Remedy			
Proposed Response	Response Status O			Proposed R	Response	Response Status O		
C/ 57 SC 57.2.12 Squire, Matt	P 209 Hatteras Network	L 52	# 592	<i>Cl</i> 57 Martin, Davi	SC 57.2.8.1 .	2 P 204 Nortel Networks	L 27	# 212
Comment Type E	Comment Status D			Comment T	vpe T	Comment Status D		
51	nal mode applies when one "end	l" of a link is n	on-operational. Its		51	ave to be the multicast value?	Whay does it s	ay "individual"?
	on of a link is non-operational. T	wo ends of a	link can be fine and	Suggested	Remedy		-	-
one fiber splice could b SuggestedRemedy				Replace	e "may specify o	either an individual or a group N oup MAC entity address"	AC entity add	ress" with "must
Change "end" to "direct	ion".			Proposed R	Response	Response Status 0		
Proposed Response	Response Status O							
				C/ 57	SC 57.2.8.1.	2 P 204	L 30	# 159
C/ 57 SC 57.2.2 Martin, David	P 199 Nortel Networks	L 20	# 210	Braga, Aldo		UNH-IOL		
Comment Type E Missing punctuation.	Comment Status D			Comment T What e		Comment Status D n_service_data_unit?		
SuggestedRemedy	standard" with "scope of this sta	odard "		Source		n the: le FCS exclusive? d the FCS exclusive?		
Proposed Response	Response Status O			Or the S	Subtype and the	he FCS exclusive? he FCS exclusive?		
				SuggestedF	Remedy			
CI 57 SC 57.2.5.2.2	P 201	L13	# 211	I'd like t	o see a statem	ent clearly defining it.		
Martin, David	Nortel Networks			Proposed R	Response	Response Status 0		
Comment Type E Anal wording suggestio	Comment Status D n.							
SuggestedRemedy								
	eld of the incoming OAMPDU" w	ith "is the ent	ire Flags field of the					
incoming OAMPDU								

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

C/ 57 SC 57.2.8.2.2 Martin, David	P 205 Nortel Networks	L 10	# 213	Cl 57 SC 57.3.2.1. Braga, Aldobino	.7 P 216 UNH-IOL	L 13	# 176
Comment Type T	Comment Status D ual" address? Doesn't the DA h	ave to be the	e multicast address?	Comment Type T This paragraph is inco	Comment Status D		
SuggestedRemedy	an individual or a group address Response Status O			Text indicates that Loc 1) A device can't get to indicating to the remot	cal Stable is only set after loca o the SEND_ANY state where te device that it is satisfied (do	local_pdu is set ne by setting Loo	to ANY, without cal Stable).
A 57 SC 57.2.9 awe, Piers comment Type E Second sentence gives tuggestedRemedy Change first sentence t troposed Response	P 205 Agilent Comment Status D the lie to the first. o 'DTEs may support either Activ Response Status O	<i>L</i> 31	# 324	knowing the remote is because of #1. Text differs from the st 3) local_stable which t SEND_LOCAL_REMO SuggestedRemedy Change the paragraph "The Local Stable and the local Discovery pro- local DTE sets the Loc Discovery has not com If, after learning of the unsatisfied it sets the I cannot successfully co Local Stable and Loca is satisfied. When both Local and I both OAM clients are s and local_pdu is set to This brings up another to 0 doesn't really mea	stable. But the remote won't tate machine. ties to the Local Stable bit is so DTE_2 state (which is before to to read: Local Discovering bits of the poess to the peer. When the C cal Stable and Local Discoveri	be able to set its et to true in the bcal_pdu is set to Flags field comm DAM Discovery p ng bits to 0x1 inc al OAM client de ering bits to 0x0 t is satisfied, the field to 0x2 indic ng bits are set to process has succ re information."	Local Stable bit o ANY). hunicate the status of rocess is started, the dicating OAM etermines it is indicating Discovery local DTE sets the cating the Local OAM 0x2 indicating that cessfully completed

P802.3ah Draft 3.1 Comments C/ 57 SC 57.3.2.2.3 P 217 L19 # 163 C/ 57 SC 57.4.2.1 P 222 L11 # 157 Braga, Aldobino UNH-IOI Braga, Aldobino UNH-IOI Comment Type E Comment Status D Comment Type Comment Status D т This "shall statement" is redundant, the same "shall" is stated on line 51. Table 57-3. Search and Replace Error? This doesn't make it any more required. But it also doesn't mean it needs to be removed. There are three instances of "In Local Information TLVs..." within the Flags field.Flags are SugaestedRemedv generic and not specific to Information OAMPDUs with Local Information TLVs. So, Please consider replacing the "shall ensure" with "ensures" SuggestedRemedy Proposed Response Response Status 0 Remove "In Local Information TLVs" from: 1) the Reserved field and 2) both Local and Remote Discovering when value is 0x3 C/ 57 SC 57.3.2.2.3 P217 L 23 # 161 Proposed Response Response Status 0 Braga, Aldobino UNH-IOL Comment Status D Comment Type E C/ 57 SC 57.4.2.1 P 222 L12 # 594 "If, however, the OAM sublayer entity is configured to not send any OAMPDUs, as indicated by the local pdu variable set to RX_INFO, the Multiplexer will simply restart the Hatteras Networks Squire, Matt pdu_timer by returning to theRESET state." Comment Type E Comment Status D I think we went overboard with that "In Local Information TLVs..." phrase, especially when The Multiplexer doesn't reset the pdu_timer. The Transmit function does. this table is about the flags field which is not part of local information TLVs. SuggestedRemedy SuggestedRemedv Replace "Multiplexer" with "Transmitter" or "Transmit function" Zap that text about local information TLVs from this table (mulitple occurences). Proposed Response Response Status 0 Proposed Response Response Status **O** C/ 57 SC 57.3.3.1 P216 L 52 # 593 C/ 57 SC 57.4.2.1 P 222 L16 # 177 Squire, Matt Hatteras Networks Braga, Aldobino UNH-IOL Comment Type E Comment Status D Comment Status D Comment Type Т Replace "forward MAC Client frame or loop back frame from Parser" with "forward a MAC Client frame or loop back a frame from the Parser" The Remote Stable and Discovering bits are copied from the the last received OAMPDU. SuggestedRemedy SuggestedRemedy Please add a statment to this affect. Remove the current description if it pleases the editor. Proposed Response Response Status 0 Proposed Response Response Status 0

CI 57 SC 57.4.2.		L 46	# 215		57.4.3.1	P 192	L 01	# 99318
Martin, David	Nortel Networks			James, David		JGG		
Comment Type T	Comment Status D			Comment Type	TR	Comment Status A		D3.0 #736
	ne Remote fields [6:5] are filled in f 57.5.2.2 p.231 for the TLVs.	rom the rece	ived Local fields [4:3] -			02 related), the ordering of bit quires that standards clearly of		
SuggestedRemedy				field, as is d	one in the c	online tutorials.		
	ne Remote Stable and Remote Dis			SuggestedReme	,			
	al Stable and Local Discovering va	alues from the	e remote OAM peer		•	of how the OUI is mapped, us	ing an nex exar	mpie.
Proposed Response	Response Status O			Proposed Respo		Response Status U		
				ACCEPT IN	PRINCIPL	Ε.		
C/ 57 SC 57.4.2.		L 3	# 160	Add a bullet	to 57.4.1 to	o read:		
Braga, Aldobino	UNH-IOL			"The bit/octe	et orderina o	of any OUI field within an OAN	/IPDU is identic	al to the bit/octet
Comment Type E	Comment Status D			ordering of t	he OUI por	tion of the DA/SA. Additional of		
	de field is set by the Multiplexer fu	nction for Info	ormation OAMPDUs it	be found in I	EEE Std 80	02-2001 Clause 9."		
generates."				Modify Figur	e 57-14 by	removing the bit ordering exa	mple.	
The Code field isn't s set by the Transmit f	set by the Mux function on OAM su unction.	blayer create	ed OAMPDUs. It is now	Modify Table	e 57-10 by i	removing the second sentenc	е.	
SuggestedRemedy				Modify other	references	as appropriate.		
Replace "Multiplexer	" with "Transmit"			Demous eth				
Proposed Response	Response Status O			Remove oth	er referenc	es to 802-2001 Clause 9.		
C/ 57 SC 57.4.2.	2 P 223	L 3	# 216					
Martin, David	Nortel Networks	-						
Comment Type T Incorrect reference.	Comment Status D							
inconect reference.								

the Control function for Information OAMPDUs it generates"

Proposed Response

Response Status 0

CI 57	SC 57.4.3.1	P 192	L 01	# 99319
James, D	avid	JGG		
Commen	t Type TR	Comment Status R		D3.0 #735
EUI-6	64 definitions, so th	s of an OUI based identifier at each organization doesn't s to the requesting division.		
Suggeste	dRemedy			
	se the OUI and Ver ed to be an EUI-48	ndor Specific Information field or EUI-64.	d to be either 48	-bit or 64-bit fields,
Proposed	l Response	Response Status U		
REJE	ECT.			
	g the November m lished.	eeting of the RAC (see note	s below) the follo	owing decisions were
INST		RICAL AND ELECTRONIC E		
		ORITY COMMITTEE (RAC)		
INTE	RIM MEETING MI	NUTES		
	: 13 November 200			
	tion: Hyatt Regency droom North	/ Albuquerque		
	Fijeras			
Albuc	querque, New Mexi	со		
	sion 111303 RAC-0	4: EUI-48 and 64-bit identifie	ers are appropria	ate for instance
to us	e an OUI followed b	5: Protocol identifiers in add by N Octet, subject to the co can never be consumed.		•
	combination of the lite 56-bit identifier.	OUI and Vendor Specific Info	ormation fields d	oes not constitute a
	ourpose of the Ven r class identification	dor Specific Information field n.	is not instance	dentification, but
The r	meaning of the bits	in the Vendor Specific Inform	mation field is ou	t of scope.
		ormation field _may_ be use sions. It is not a serial numbe		
•				

See also response to comment #737.

Cl 57	SC 57.4.3.1	P 196	L16	#	99320
James, Davi	d	JGG			

Comment Type TR Comment Status R

The need for uniqueness of an OUI based identifier is best met by utilizing the EUI-48 or EUI-64 definitions, so that each organization doesn't have to understand the context when assigning such numbers to the requesting division.

SuggestedRemedy

Revise the OUI and following data, so that this starts with an EUI-48 or EUI-64 value. Otherwise, multi-division organizations will have to define their own subparsing conventions, which is prone to error (some have already happened with Japanese vendors and parts of 1394/AVC that do this type of thing).

Proposed Response Response Status U

REJECT.

Governance of the internal behavior of multi-division organizations is entirely out of scope of the IEEE standards activities.

See also response to comment #735.

C/ 57	SC 57.4.3.1	P 196	L 24	# 99321
James, Davi	d	JGG		

Comment Type TR Comment Status A

The IEEE/RAC defines OUIs as HEX values. Given the confusion between leftmost being first, or the first transmitted bit being first, any descriptions in terms of bits and/or bit ordering should be removed.

SuggestedRemedy

Eliminate the binary text: the hex values are sufficient.

Proposed Response Response Status U ACCEPT IN PRINCIPLE.

See comment #736, which removes the bit ordering example.

D3.0 #737

D3.0 #738

C/ 57 ames, Davi	SC 57.4.3.1 d	P 197 JGG	L 40	# 99322	Cl 57 SC 57.4.3.3 Messenger, John	B P 224 ADVA Optic	L 28 al Network	# 553
Comment Ty	/pe TR	Comment Status R		D3.0 #739	Comment Type TR	Comment Status D		
		es/ambiguities of the OUI de d, not cross referencing som		02.3, any definition	D3.1 changed the siz 57-12.	e of the Variable Leaf field, b	ut this change wa	as omitted from figure
SuggestedR	emedy				SuggestedRemedy			
Eliminat	e the OUI cross	reference to:				ge the following values unde		
found in	IEEE Std 802-2	2001 Clause 9.			For Variable Descript	ors #1 and #2, change "2" to ange "1" to "2".	-3	
Proposed Re	•	Response Status U			Change the example	Variable Leaf value from "0x	06" to "0x0006".	
REJECT	Γ.				Proposed Response	Response Status 0		
See com	nment #736, wh	ich moves the reference to 8	802-2001 Clause	9 to 57.4.1.				
/ 57	SC 57.4.3.1	P 199	L 23	# 99323	CI 57 SC 57.4.3.4	P 226	L15	# 554
ames, Davi	d	JGG			Messenger, John	ADVA Optic	al Network	
mes, Davi								
omment Ty		Comment Status A		D3.0 #740	Comment Type TR	Comment Status D		
omment Ty In many such, the	cases (often 80 e IEEE/RAC rec	02 related), the ordering of bi quires that standards clearly		ather ambiguous. As	D3.1 changed the siz 57-13.	<i>Comment Status</i> D e of the Variable Leaf field, b	ut this change wa	as omitted from figure
comment Ty In many such, the field, as	cases (often 80 e IEEE/RAC red is done in the o	02 related), the ordering of bi quires that standards clearly		ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy	e of the Variable Leaf field, b	C	as omitted from figure
omment Ty In many such, the field, as uggestedR	cases (often 80 e IEEE/RAC red is done in the o emedy	02 related), the ordering of bi quires that standards clearly online tutorials.	define the mapp	ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan	e of the Variable Leaf field, b ge the following values unde	C	as omitted from figure
Comment Ty In many such, the field, as cuggestedR Show a	cases (often 80 e IEEE/RAC red is done in the o cemedy figure with the o	02 related), the ordering of bi quires that standards clearly online tutorials. classical HEX-value example	define the mapp	ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan	e of the Variable Leaf field, b ge the following values unde er #1, change "7" to "8".	C	as omitted from figure
Comment Ty In many such, the field, as SuggestedR Show a Proposed Re	cases (often 80 e IEEE/RAC red is done in the o cemedy figure with the o	02 related), the ordering of bi quires that standards clearly online tutorials. classical HEX-value example <i>Response Status</i> U	define the mapp	ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1"	e of the Variable Leaf field, b ge the following values unde er #1, change "7" to "8". to "2".	r "Octets".	as omitted from figure
Comment Ty In many such, the field, as uggestedR Show a roposed Re ACCEP	cases (often 80 e IEEE/RAC rec is done in the o <i>emedy</i> figure with the o esponse T IN PRINCIPLI	02 related), the ordering of bi quires that standards clearly online tutorials. classical HEX-value example <i>Response Status</i> U	define the mapp	ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1"	e of the Variable Leaf field, b ge the following values unde er #1, change "7" to "8".	r "Octets".	as omitted from figure
Comment Ty In many such, the field, as cuggestedR Show a Proposed Re ACCEP Remove	cases (often 80 e IEEE/RAC rec is done in the o eemedy figure with the o esponse T IN PRINCIPLI	02 related), the ordering of bi quires that standards clearly inline tutorials. classical HEX-value example <i>Response Status</i> U E. ince. Also, see #736.	define the mapp	ather ambiguous. As ings of an example hex	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1" Change the example	e of the Variable Leaf field, b ge the following values unde er #1, change "7" to "8". to "2". Leaf value from "0x06" to "0x	r "Octets".	as omitted from figure
In many such, the field, as uggestedR Show a roposed Re ACCEP Remove	cases (often 80 e IEEE/RAC red is done in the o bemedy figure with the o esponse T IN PRINCIPLE e second senten SC 57.4.3.1	02 related), the ordering of bi quires that standards clearly online tutorials. classical HEX-value example <i>Response Status</i> U E.	define the mapp	ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1" Change the example	e of the Variable Leaf field, b ge the following values unde er #1, change "7" to "8". to "2". Leaf value from "0x06" to "0x	r "Octets".	as omitted from figure
Comment Ty In many such, the field, as luggestedR Show a Proposed Re ACCEP Remove Cl 57 ames, Davi	cases (often 80 e IEEE/RAC rec is done in the o eemedy figure with the o esponse T IN PRINCIPLE e second senten SC 57.4.3.1 d	02 related), the ordering of bi quires that standards clearly inline tutorials. classical HEX-value example <i>Response Status</i> U E. ince. Also, see #736. <i>P</i> 200	define the mapp	ather ambiguous. As ings of an example hex	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1" Change the example Proposed Response	e of the Variable Leaf field, b ge the following values unde er #1, change "7" to "8". to "2". Leaf value from "0x06" to "0x <i>Response Status</i> 0	r "Octets". k0006". <i>L</i> 12	
omment Ty In many such, the field, as uggestedR Show a roposed Re ACCEP Remove / 57 ames, Davi omment Ty In many such, the	cases (often 80 e IEEE/RAC rec is done in the o eemedy figure with the o esponse T IN PRINCIPLE e second senten SC 57.4.3.1 d /pe TR cases (often 80	02 related), the ordering of bi quires that standards clearly inline tutorials. classical HEX-value example <i>Response Status</i> U E. ice. Also, see #736. <i>P</i> 200 JGG <i>Comment Status</i> A 02 related), the ordering of bi quires that standards clearly	define the mapp <i>L</i> 09 ts in the OUI is r	ather ambiguous. As ings of an example hex # 99324 D3.0 #741 ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1" Change the example Proposed Response Cl 57 SC 57.5.2 Squire, Matt Comment Type E using "TLV type value	e of the Variable Leaf field, b ge the following values unde r #1, change "7" to "8". to "2". Leaf value from "0x06" to "0x <i>Response Status</i> 0 <i>P</i> 228	r "Octets". <0006". <i>L</i> 12 etworks	# <u>595</u>
In many such, the field, as uggestedR Show a oposed Re ACCEP ⁻ Remove 57 mes, Davi omment Ty In many such, the field, as	cases (often 80 e IEEE/RAC rec is done in the o eemedy figure with the o esponse T IN PRINCIPLI e second senten SC 57.4.3.1 d ype TR cases (often 80 e IEEE/RAC rec is done in the o	02 related), the ordering of bi quires that standards clearly inline tutorials. classical HEX-value example <i>Response Status</i> U E. ice. Also, see #736. <i>P</i> 200 JGG <i>Comment Status</i> A 02 related), the ordering of bi quires that standards clearly	define the mapp <i>L</i> 09 ts in the OUI is r	ather ambiguous. As ings of an example hex # 99324 D3.0 #741 ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1" Change the example Proposed Response Cl 57 SC 57.5.2 Squire, Matt Comment Type E using "TLV type value the table.	e of the Variable Leaf field, b ge the following values unde er #1, change "7" to "8". to "2". Leaf value from "0x06" to "0x <i>Response Status</i> O <i>P</i> 228 Hatteras Ne <i>Comment Status</i> D	r "Octets". <0006". <i>L</i> 12 etworks	# <u>595</u>
Comment Ty In many such, the field, as SuggestedR Show a Proposed Re ACCEP Remove Comment Ty In many such, the field, as SuggestedR	cases (often 80 e IEEE/RAC rec is done in the o eemedy figure with the o esponse T IN PRINCIPLE esecond senten SC 57.4.3.1 d vpe TR cases (often 80 e IEEE/RAC rec is done in the o emedy	02 related), the ordering of bi quires that standards clearly inline tutorials. classical HEX-value example <i>Response Status</i> U E. ice. Also, see #736. <i>P</i> 200 JGG <i>Comment Status</i> A 02 related), the ordering of bi quires that standards clearly	define the mapp <i>L</i> 09 ts in the OUI is r define the mapp	ather ambiguous. As ings of an example hex # 99324 D3.0 #741 ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1" Change the example Proposed Response Cl 57 SC 57.5.2 Squire, Matt Comment Type E using "TLV type value	e of the Variable Leaf field, b ge the following values unde r #1, change "7" to "8". to "2". Leaf value from "0x06" to "0x <i>Response Status</i> O <i>P</i> 228 Hatteras Ne <i>Comment Status</i> D es" to me indicates we're goir	r "Octets". <0006". <i>L</i> 12 etworks	# <u>595</u>
Comment Ty In many such, the field, as uggestedR Show a roposed Re ACCEP Remove 7 57 Remove 7 57 ames, Davi comment Ty In many such, the field, as uggestedR	cases (often 80 e IEEE/RAC rec is done in the o eemedy figure with the o esponse T IN PRINCIPLE e second senten SC 57.4.3.1 d /pe TR cases (often 80 e IEEE/RAC rec is done in the o emedy figure with the o	02 related), the ordering of bi quires that standards clearly inline tutorials. classical HEX-value example <i>Response Status</i> U E. ince. Also, see #736. <i>P</i> 200 JGG <i>Comment Status</i> A 02 related), the ordering of bi quires that standards clearly inline tutorials.	define the mapp <i>L</i> 09 ts in the OUI is r define the mapp	ather ambiguous. As ings of an example hex # 99324 D3.0 #741 ather ambiguous. As	D3.1 changed the siz 57-13. SuggestedRemedy In Figure 57-13, chan For Variable Containe For Leaf, change "1" Change the example Proposed Response Cl 57 SC 57.5.2 Squire, Matt Comment Type E using "TLV type value the table. SuggestedRemedy	e of the Variable Leaf field, b ge the following values unde r #1, change "7" to "8". to "2". Leaf value from "0x06" to "0x <i>Response Status</i> O <i>P</i> 228 Hatteras Ne <i>Comment Status</i> D es" to me indicates we're goir	r "Octets". <0006". <i>L</i> 12 etworks	# <u>595</u>

CI 57 SC 57.5.2.1	P 228	L 50	# 550	CI 57 SC 57.5.3	-	L 15	# 596
lessenger, John	ADVA Optical N	Network		Squire, Matt	Hatteras Net	tworks	
objects: a reserved field ar that the combination of the according to the applicable (c)). SuggestedRemedy	Comment Status D PDU configuration is not cle nd an 11-bit Maximum OAN ese two items is treated as a e rule for binary numbers re	IPDU Size field. a 16-bit number presented in mu	It needs to be clear and encoded ultiple octets (57.4.1	it makes reading the SuggestedRemedy	Comment Status D nit that" in the threshold of two at paragraph much more difficu ly added "a limit that" from the ds threshold. Response Status O	lt.	
as a 16-bit number and en in 57.4.1 (c)".	"g)", end of line 50: "The O/ ncoded accordingly.", or if pr <i>Response Status</i> O			C/ 57 SC 57.5.3 Martin, David	3.1 P 232 Nortel Netwo	L18	# 219
C/ 57 SC 57.5.2.1	P 229	L 21	# 162	Comment Type E	Comment Status D		
Braga, Aldobino Comment Type T	UNH-IOL Comment Status D	r Local Informat	ion TLV fields only		to 30.11.1.1.34" with "this map	s to 30.11.1.1.35	'n
There are two Reserved b have one.	ort spaces in this table. Othe			Proposed Response	Response Status O		
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve	at bit 0. lultiplexer Action down to 1:			Cl 57 SC 57.5.3 Martin, David Comment Type E	3.1 P 232 Nortel Netwo Comment Status D	L 24 orks	# 220
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve	at bit 0. lultiplexer Action down to 1: ed bits to 7:3.			<i>Cl</i> 57 <i>SC</i> 57.5.3 Martin, David <i>Comment Type</i> E Add reference to c3	3.1 P 232 Nortel Netwo Comment Status D		# 220
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve Proposed Response Cl 57 SC 57.5.3.1 Martin, David	at bit 0. lultiplexer Action down to 1: ed bits to 7:3. <i>Response Status</i> O <i>P</i> 232 Nortel Networks	0 and 2 respecti		Cl 57 SC 57.5.3 Martin, David Comment Type E Add reference to c3 SuggestedRemedy Add "When this eve to 30.11.1.1.35. Wh	5.1 P 232 Nortel Netwo <i>Comment Status</i> D 0 attributes. In tis generated by the local DT iven this event is received from t	orks E and if Clause 3	30 is present, this maps
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve Proposed Response Cl 57 SC 57.5.3.1 Martin, David Comment Type E Incorrect cross-reference.	at bit 0. Iultiplexer Action down to 1: Id bits to 7:3. Response Status O	0 and 2 respecti	ively.	Cl 57 SC 57.5.3 Martin, David Comment Type E Add reference to c3 SuggestedRemedy Add "When this eve	5.1 P 232 Nortel Netwo <i>Comment Status</i> D 0 attributes. In tis generated by the local DT iven this event is received from t	orks E and if Clause 3	30 is present, this maps
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve Proposed Response Cl 57 SC 57.5.3.1 Martin, David Comment Type E Incorrect cross-reference. SuggestedRemedy	at bit 0. Iultiplexer Action down to 1: ad bits to 7:3. Response Status O P232 Nortel Networks Comment Status D	0 and 2 respecti <i>L</i> 10 s	ively.	Cl 57 SC 57.5.3 Martin, David Comment Type E Add reference to c3 SuggestedRemedy Add "When this eve to 30.11.1.1.35. Wh present, this maps t Proposed Response	A.1 P232 Nortel Netwo <i>Comment Status</i> D 0 attributes. Po attribut	orks E and if Clause 3 he remote DTE a	30 is present, this maps and if Clause 30 is
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve Proposed Response Comment Reserve SuggestedRemedy Replace "this maps to 30."	at bit 0. lultiplexer Action down to 1: ed bits to 7:3. <i>Response Status</i> O <i>P</i> 232 Nortel Networks	0 and 2 respecti <i>L</i> 10 s	ively.	Cl 57 SC 57.5.3 Martin, David Comment Type E Add reference to c3 SuggestedRemedy Add "When this eve to 30.11.1.1.35. Wh present, this maps t	A.1 P232 Nortel Netwo <i>Comment Status</i> D 0 attributes. Po attribut	Drks E and if Clause 3 he remote DTE a	30 is present, this maps
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve Proposed Response St 57 SC 57.5.3.1 Martin, David Comment Type E Incorrect cross-reference. SuggestedRemedy Replace "this maps to 30.1	at bit 0. Iultiplexer Action down to 1: ed bits to 7:3. Response Status O P232 Nortel Networks Comment Status D 11.1.1.34" with "this maps to	0 and 2 respecti <i>L</i> 10 s	ively.	Cl 57 SC 57.5.3 Martin, David Comment Type E Add reference to c3 SuggestedRemedy Add "When this eve to 30.11.1.1.35. Wh present, this maps t Proposed Response Cl 57 SC 57.5.3	P232 Nortel Network Comment Status D o attributes. ent is generated by the local DT en this event is received from t io 30.11.1.1.42." Response Status O A.1 P232 Nortel Network Comment Status D	Drks E and if Clause 3 he remote DTE a	30 is present, this maps and if Clause 30 is
have one. SuggestedRemedy Remove the Reserved bit Slide Parser Action and M Expand the other Reserve Proposed Response CI 57 SC 57.5.3.1 Martin, David Comment Type E Incorrect cross-reference. SuggestedRemedy Replace "this maps to 30.7	at bit 0. Iultiplexer Action down to 1: ed bits to 7:3. Response Status O P232 Nortel Networks Comment Status D 11.1.1.34" with "this maps to	0 and 2 respecti <i>L</i> 10 s	ively.	Cl 57 SC 57.5.3 Martin, David Comment Type E Add reference to c3 SuggestedRemedy Add "When this eve to 30.11.1.1.35. Wh present, this maps t Proposed Response Cl 57 SC 57.5.3 Martin, David Comment Type E Add reference to c3 SuggestedRemedy	P232 Nortel Network Comment Status D o attributes. ent is generated by the local DT en this event is received from t io 30.11.1.1.42." Response Status O A.1 P232 Nortel Network Comment Status D	E and if Clause 3 he remote DTE a <i>L</i> 26 orks	30 is present, this maps and if Clause 30 is # [221

57 SC 57.5.3.1

			P802.3ah D	raft 3.1 Co	mments			
Cl 57 SC 57.5.3. Martin, David	P 232 Nortel Networks	L 30	# 222	<i>CI</i> 57 Martin, Da	SC 57.5.3.2	P 233 Nortel Networks	L13	# 226
Comment Type E Add reference to c30	Comment Status D attributes.			Comment Add r	<i>Type</i> E eferences to the c	Comment Status D 30 attributes.		
	t is generated by the local DTE ar n this event is received from the r 30.11.1.1.42."		· · · ·	to 30.	When this event i	s generated by the local DTE an this event is received from the re 0.11.1.1.43."		
Proposed Response	Response Status O			Proposed	Response	Response Status O		
<i>Cl</i> 57 <i>SC</i> 57.5.3 . Martin, David	1 P 232 Nortel Networks	L 6	# 217	<i>CI</i> 57 Martin, Da	SC 57.5.3.2 avid	P 233 Nortel Networks	L 15	# 227
Comment Type E Add reference to c30	Comment Status D local attribute.			Comment Add r	<i>Type</i> E eference to c30 lo	Comment Status D ocal attribute.		
SuggestedRemedy Add "When this even to 30.11.1.1.35."	t is generated by the local DTE ar	nd if Clause 3	0 is present, this maps			s generated by the local DTE an	d if Clause 3	30 is present, this maps
Proposed Response	Response Status O			Proposed	Response	Response Status O		
<i>Cl</i> 57 <i>SC</i> 57.5.3 .2 Martin, David	2 P 232 Nortel Networks	L 49	# 223	<i>CI</i> 57 Martin, Da	SC 57.5.3.2 avid	P 233 Nortel Networks	L18	# 228
Comment Type E Add reference to c30	Comment Status D local attribute.			Comment Add r	<i>Type</i> E eferences to c30	Comment Status D attributes.		
to 30.11.1.1.37."	t is generated by the local DTE ar	nd if Clause 3	0 is present, this maps	to 30.	When this event i	s generated by the local DTE an this event is received from the re 0.11.1.1.43."		
Proposed Response	Response Status O				Response	Response Status O		

Page 74 of 130 C/ 57 SC 57.5.3.2

			P802.3ah [Praft 3.1 Comments			
Cl 57 SC 57.5.3.2 Martin, David	P 233 Nortel Networks	L 53	# 224	Cl 57 SC 57.5.3.3 Martin, David	P 233 Nortel Networks	L 53	# 231
Comment Type E Incorrect reference.	Comment Status D			Comment Type E Incorrect reference.	Comment Status D		
SuggestedRemedy Change "this maps to 30	0.11.1.1.36" to "this maps to 30.	11.1.1.37"		SuggestedRemedy Change "this maps to 3	30.11.1.1.38" to "this maps to 30.1	11.1.1.39"	
Proposed Response	Response Status O			Proposed Response	Response Status O		
Cl 57 SC 57.5.3.2 Martin, David	P 233 Nortel Networks	L 7	# 225	C/ 57 SC 57.5.3.3 Martin, David	P 234 Nortel Networks	L11	# 234
Comment Type E Incorrect reference.	Comment Status D			Comment Type E Add references to c30	Comment Status D attributes.		
SuggestedRemedy				SuggestedRemedy			
Change "this maps to 30 Proposed Response	0.11.1.1.36" to "this maps to 30. Response Status 0	11.1.1.37"			s generated by the local DTE and this event is received from the rea 0.11.1.1.44."		
				Proposed Response	Response Status O		
Cl 57 SC 57.5.3.3 Martin, David	P 233 Nortel Networks	L 38	# 229	C/ 57 SC 57.5.3.3	P 234	L5	# 232
Comment Type E	Comment Status D			Martin, David	Nortel Networks	-	
Add reference to c30 loc	cal attribute.			Comment Type E	Comment Status D		
SuggestedRemedy Add "When this event is	generated by the local DTE and	d if Clause 30	is present, this maps	Add references to c30	attributes.		
to 30.11.1.1.39." Proposed Response	Response Status O				s generated by the local DTE and this event is received from the re 0.11.1.1.44."		
C/ 57 SC 57.5.3.3 Martin, David	P 233 Nortel Networks	L 42	# 230	Proposed Response	Response Status O		
Comment Type E Incorrect reference.	Comment Status D						
SuggestedRemedy Change "this maps to 30	0.11.1.1.38" to "this maps to 30.	11.1.1.39"					
Proposed Response	Response Status O						

			P802.3ah D	raft 3.1 Comments				
C/ 57 SC 57.5.3.3 Martin, David	P 234 Nortel Networks	L 8	# 233	C/ 57 SC 57.5.3.4 Martin, David	P 234 Nortel Networks	L 5 1	# 238	
Comment Type E Add reference to c30 loc	Comment Status D cal attribute.			Comment Type E Add references to c30	Comment Status D attributes.			
SuggestedRemedy Add "When this event is to 30.11.1.1.39." Proposed Response	s generated by the local DTE and Response Status O	l if Clause 30	is present, this maps		s generated by the local DTE and this event is received from the re 0.11.1.1.45." <i>Response Status</i> O			
C/ 57 SC 57.5.3.4 Martin, David	P 234 Nortel Networks	L 32	# 235	<i>Cl</i> 57 SC 57.5.3.4 Martin, David	P 234 Nortel Networks	L 53	# 239	
Comment Type E Add reference to c30 loc	Comment Status D cal attribute.			Comment Type E	Comment Status D			
SuggestedRemedy Add "When this event is to 30.11.1.1.41." Proposed Response	s generated by the local DTE and Response Status 0	l if Clause 30	is present, this maps	Add reference to c30 lo SuggestedRemedy Add "When this event i to 30.11.1.1.41." Proposed Response	s generated by the local DTE and Response Status 0	d if Clause 3	0 is present, this maps	
C/ 57 SC 57.5.3.4 Martin, David	P 234 Nortel Networks	L 36	# 236	<i>Cl</i> 57 <i>SC</i> 57.5.3.4 Martin, David	P 235 Nortel Networks	L3	# 240	
Comment Type E Incorrect reference.	Comment Status D			Comment Type E	Comment Status D			
SuggestedRemedy Change "this maps to 30	0.11.1.1.40" to "this maps to 30.	11.1.1.41".		Add references to c30 SuggestedRemedy	attributes.			
Proposed Response	Response Status O			Add "When this event is generated by the local DTE and if Clause 30 is present, this maps to 30.11.1.1.41. When this event is received from the remote DTE and if Clause 30 is present, this maps to 30.11.1.1.45."				
C/ 57 SC 57.5.3.4	P 234 Nortel Networks	L 45	# 237	Proposed Response	Response Status 0			
Comment Type E Incorrect reference.	Comment Status D							
SuggestedRemedy Change "this maps to 30	0.11.1.1.40" to "this maps to 30.	11.1.1.41"						
Proposed Response	Response Status O							

Typo. SuggestedRemedy Change "the an Organization Spe Proposed Response Respon Cl 57 SC 57.6.1 Messenger, John Comment Type TR Comment Tables 57-13 looks similar to the representing the same kind of info object to be encoded in an OAMF	P236		pecific Event"	represe object to result, tl are enco represe	ype TR 7-14 looks s nting the sa b be encode he table sho oded in the nted in Figu	similar to the me kind of in ed in an OAM ows elements OAMPDU. T		8 to 57-11) but is lier tables each ro 14 represents m the opposite ord	epresent a single ultiple objects. As a ler to that in which they
Messenger, John <i>Comment Type</i> TR <i>Comment</i> Tables 57-13 looks similar to the representing the same kind of info object to be encoded in an OAMF		1.0				s confusing a	ge 226. and misleading. It do	oes not properly	represent the order of
Comment Type TR Comment Tables 57-13 looks similar to the representing the same kind of info object to be encoded in an OAMF		L 9	# 551	OAMPE		dues it assis	st in working out how	w to encode the i	leids into the
Tables 57-13 looks similar to the representing the same kind of info object to be encoded in an OAMF	ADVA Optical	Network		SuggestedF	Remedy				
are encoded in the OAMPDU. Th represented in Figure 57-12, page The "Bits" column is confusing an bits on the wire, nor does it assist	ormation. The earl PDU, but Table 57- of the OAMPDU in his presentation co e 225. hd misleading. It do	ier tables each r 13 represents m the opposite orc nflicts with the (c pes not properly	represent a single nultiple objects. As a der to that in which they correct) order represent the order of	Branch" Reverse field fro In the de and bits	e the order m the table escription o 30:24.	of the rows in to be encode f the "Variable	ed into the OAMPDU e Width" field, refer t	e topmost row re J.	"1" for "Variable presents the earliest 6:0, instead of bit 31
OAMPDU.				Proposed R	esponse	Respo	nse Status O		
SuggestedRemedy Remove the "Bits" column. Repla "Variable Leaf" and "1" for "Variab		" column having	g entries of "2" for	<i>Cl</i> 57 Braga, Aldol	SC 57.6. :	2.2	Р 237 UNH-IOL	L 25	# 180
Reverse the order of the rows in t field from the table to be encoded			epresents the earliest	Comment T	ype E	Comr	ment Status D		
	Response Status O				Although the text nicely describes the format of Variable Containers when requesting a package, I can't help but think a table would help make the format clearer.				

Please add a "Variable Container format when requesting a Package" table.

Proposed Response F

Response Status O

C/ 57 SC 57.6.2.3 P 237 L 42 # 181 Braga, Aldobino UNH-IOL	C/ 57 SC 57.6.2.3 P 237 L 42 # 179 Braga, Aldobino UNH-IOL
Comment Type E Comment Status D Although the text nicely describes the format of Variable Containers when requesting an object, I can't help but think a table would help make the format clearer.	Comment Type E Comment Status D Clauses 57.6.2.1 - 57.6.2.3 have a lot of redundant information.
SuggestedRemedy Please add a "Variable Container format when requesting an Object" table. Proposed Response Response Status O	SuggestedRemedyPlace all redundant information in another clause (57.6.2.4).Proposed ResponseResponse StatusO
C/ 57 SC 57.6.2.3 P 237 L 42 # 178 Braga, Aldobino UNH-IOL	C/ 57 SC 57.7 P 241 L 8 # 393 Law, David 3Com
Comment Type TR Comment Status D	Comment Type T Comment Status D The support column options are not correct for a Mandatory item nor a predicated
I'm under the impression that new MIB variables are constantly being added. If so, isn't it possible for one OAM device to recognize a package with 'X' variables and another device	mandatory item.
possible for one OAM device to recognize a package with 'X' variables and another device to recognize that same package with 'Y' variables? How does one differentiate the beginning of the second Variable Container and unknown attributes within the package? This is an issue when receive more than expected as well as when receiving less then expected.	mandatory item. SuggestedRemedy A mandatory item (Status = M) should only provide the option 'Yes []' in the Support column. A predicated mandatory item (Status = <item>:M) should only provide the option 'Yes []' and 'N/A []' in the Support column. The entire PICS should be checked for this.</item>
 possible for one OAM device to recognize a package with 'X' variables and another device to recognize that same package with 'Y' variables? How does one differentiate the beginning of the second Variable Container and unknown attributes within the package? This is an issue when receive more than expected as well as when receiving less then expected. The addition of new packages would create a similar problem when requesting objects. 	SuggestedRemedy A mandatory item (Status = M) should only provide the option 'Yes []' in the Support column. A predicated mandatory item (Status = <item>:M) should only provide the option 'Yes []' and 'N/A []' in the Support column.</item>
 possible for one OAM device to recognize a package with 'X' variables and another device to recognize that same package with 'Y' variables? How does one differentiate the beginning of the second Variable Container and unknown attributes within the package? This is an issue when receive more than expected as well as when receiving less then expected. The addition of new packages would create a similar problem when requesting objects. 	SuggestedRemedy A mandatory item (Status = M) should only provide the option 'Yes []' in the Support column. A predicated mandatory item (Status = <item>:M) should only provide the option 'Yes []' and 'N/A []' in the Support column. The entire PICS should be checked for this.</item>
 possible for one OAM device to recognize a package with 'X' variables and another device to recognize that same package with 'Y' variables? How does one differentiate the beginning of the second Variable Container and unknown attributes within the package? This is an issue when receive more than expected as well as when receiving less then expected. The addition of new packages would create a similar problem when requesting objects. SuggestedRemedy I see two possible fixes. 1) Define an end of package marker (and an end of object marker) 	SuggestedRemedy A mandatory item (Status = M) should only provide the option 'Yes []' in the Support column. A predicated mandatory item (Status = <item>:M) should only provide the option 'Yes []' and 'N/A []' in the Support column. The entire PICS should be checked for this. Proposed Response Response Status Cl 57 SC 57.7.3.1 P 242 L 16 # 164</item>
 possible for one OAM device to recognize a package with 'X' variables and another device to recognize that same package with 'Y' variables? How does one differentiate the beginning of the second Variable Container and unknown attributes within the package? This is an issue when receive more than expected as well as when receiving less then expected. The addition of new packages would create a similar problem when requesting objects. SuggestedRemedy I see two possible fixes. 1) Define an end of package marker (and an end of object marker) 2) Define a package width (and an object width) Tacking on an "end of" marker would be quicker than trying to calculate the width. Reserved variable errors could be used, but a marker is not an error? If variable error codes as markers is the way the group wants to go, the following error codes could be used: 	SuggestedRemedy A mandatory item (Status = M) should only provide the option 'Yes []' in the Support column. A predicated mandatory item (Status = <item>:M) should only provide the option 'Yes []' and 'N/A []' in the Support column. The entire PICS should be checked for this. Proposed Response Response Status Cl 57 SC 57.7.3.1 P 242 L 16 # 164 Braga, Aldobino UNH-IOL Comment Type E Comment Status D</item>
 possible for one OAM device to recognize a package with 'X' variables and another device to recognize that same package with 'Y' variables? How does one differentiate the beginning of the second Variable Container and unknown attributes within the package? This is an issue when receive more than expected as well as when receiving less then expected. The addition of new packages would create a similar problem when requesting objects. SuggestedRemedy I see two possible fixes. 1) Define an end of package marker (and an end of object marker) 2) Define a package width (and an object width) Tacking on an "end of" marker would be quicker than trying to calculate the width. Reserved variable errors could be used, but a marker is not an error? If variable error codes as markers is the way the group wants to go, the following error 	SuggestedRemedy A mandatory item (Status = M) should only provide the option 'Yes []' in the Support column. A predicated mandatory item (Status = <item>:M) should only provide the option 'Yes []' and 'N/A []' in the Support column. The entire PICS should be checked for this. Proposed Response Response Status Cl 57 SC 57.7.3.1 P 242 L 16 # 164 Braga, Aldobino UNH-IOL Comment Type E Comment Status D OFS9 and OFS10 are the same PICS as those stated in RB2 and RB3 SuggestedRemedy</item>

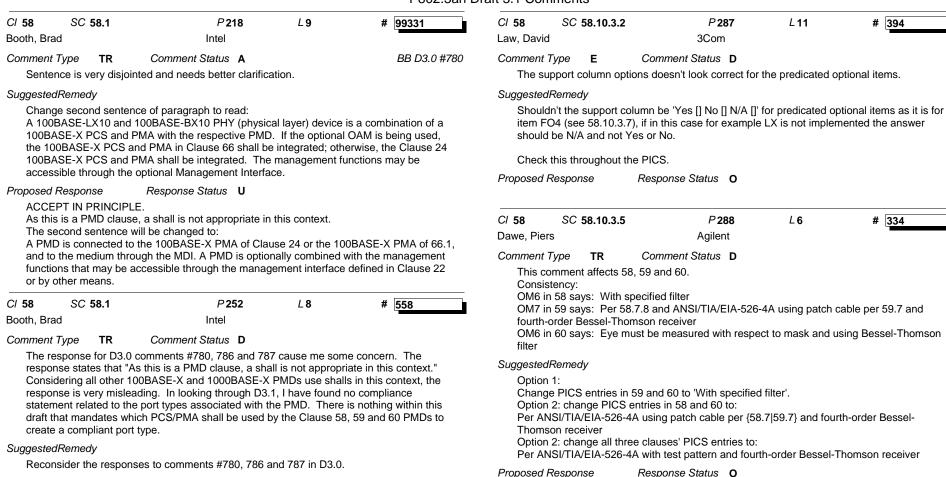
			P802.3al	n Draft 3.1 Comments			
Cl 57 SC 57.7.3.3 Braga, Aldobino	8 P 244 UNH-IOL	L11	# 165	Cl 57 SC 57.7.4 Martin, David	4 P 249 Nortel Network	L 12 s	# 242
Comment Type E PDU3: reads "64 oct	Comment Status D et OAMPDUs"			Comment Type E Incorrect event nam	Comment Status D		
SuggestedRemedy Please change "64 or	ctet OAMPDUs" to "OAMPDUS	s minFrameSize	in length"	SuggestedRemedy Change "Errored F	rame Event Period" to "Errored Fra	ame Event"	
Proposed Response	Response Status O			Proposed Response	Response Status O		
<i>Cl</i> 57 <i>SC</i> 57.7.3.4 Braga, Aldobino	P 246 UNH-IOL	L 23	# 166	Cl 57 SC 57.7.4 Braga, Aldobino	4 P 249 UNH-IOL	L13	# 168
Comment Type E There is no shall asso SuggestedRemedy Please remove PICS	Comment Status D ociated with this statement. entry LIT6.				Comment Status D ould be labeled "Errored Frame Pe eferences for ET2 and ET3 are rev 57.5.3.2)		
Proposed Response	Response Status O			SuggestedRemedy Change the Label f Swap the subclaus	or ET2. e references for ET2 and ET3.		
C/ 57 SC 57.7.3.5 Braga, Aldobino	6 P 247 UNH-IOL	L 6	# 167	And If its not too m	uch trouble, Swap ET2 and ET3. (I ne Period Event TLV in the docum		Event TLV comes
Comment Type E All the PICS entries ir statement.	Comment Status D this table have been replaced	l with an all enco	ompassing shall	Proposed Response	Response Status 0	,	
SuggestedRemedy Replace RIT1 with:				C/ 57 SC 57.7.4 Martin, David	P 249 Nortel Network	L 19 s	# 243
TLV from remote OAI		rom last receive	d Local Information	Comment Type E Incorrect event nam	Comment Status D		
And delete RIT2 - RIT Proposed Response	8 Response Status O			SuggestedRemedy Change "Errored F	rame Event " to "Errored Frame Pe	eriod Event "	
				Proposed Response	Response Status O		

C/ 57 SC 57.7.5	P 250	L19	# 169	CI 57 SC 5	57.7.6	P 250	L 53	# 173
Braga, Aldobino	UNH-IOL	219	# 109	Braga, Aldobino	,,,,,	UNH-IOL	200	# 115
Comment Type E	Comment Status D			Comment Type	Е	Comment Status D		
VAR4 Label needs to b	be more specific			The Reserved Table 57-12:		ent TLV type values for Table s	57-12 have no F	PICS entries:
SuggestedRemedy				SuggestedRemed	,			
Please change to:	ucture" to "Variable Containe	r structure for an	attributo"	Reserved Link		V types		
Proposed Response	Response Status O		attribute					
Proposed Response	Response Status 0					05-0xFD Table 57-12 not to F Table 57-12 not to be se		
C/ 57 SC 57.7.6	P 250	L 46	# 170	Proposed Respon	se	Response Status 0		
Braga, Aldobino	UNH-IOL	•						
Comment Type E	Comment Status D			CI 57 SC 5	57.7.6	P 250	L 53	# 174
21	of two bits spaces within the	Table 57-3.		Braga, Aldobino		UNH-IOL		
SuggestedRemedy				Comment Type	Е	Comment Status D		
•	c bit space it refers to and add as per another comment rem		2			Error type values for Table 57 7, 25-3F, 44-5F, 64-7F	7-16 have no Pl	CS entries:
Proposed Response Response Status O				SuggestedRemed	y			
				Reserved Var	able Erro	r type values		
				RIT13 Type v RIT14 Type v RIT15 Type v	/alues 0x /alues 0x /alues 0x	0 Table 57-16 not to be ser 02-0x1F Table 57-16 not to 25-0x3F Table 57-16 not to 44-0x5F Table 57-16 not to 64-0x7F Table 57-16 not to	be sent be sent be sent	
		The Reserved Information TLV type values for Table 57-6 have no PICS entries:					De sem	
Comment Type E The Reserved Informat	tion TLV type values for Table	e 57-6 have no P	ICS entries:		~~	Booponoo Statua		
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF	tion TLV type values for Table	e 57-6 have no P	ICS entries:	Proposed Respon	se	Response Status O		
Comment Type E The Reserved Informat	tion TLV type values for Table	e 57-6 have no P	ICS entries:	Proposed Respon				
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF SuggestedRemedy Reserved Information 1	tion TLV type values for Table		ICS entries:	Proposed Respon	se 57.7.6	P 250	L 53	# 171
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF SuggestedRemedy Reserved Information 7 RIT8 Type values 0x0	tion TLV type values for Table TLV types 03-0xFD Table 57-6 not to b	be sent	ICS entries:	Proposed Respon Cl 57 SC 5 Braga, Aldobino	57.7.6	Р 250 UNH-IOL	L 53	# 171
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF SuggestedRemedy Reserved Information 1 RIT8 Type values 0x0 RIT9 Type value 0xFF	tion TLV type values for Table TLV types 03-0xFD Table 57-6 not to b F Table 57-6 not to be sent	be sent	ICS entries:	Proposed Respon Cl 57 SC S Braga, Aldobino Comment Type	57.7.6 E	P 250 UNH-IOL Comment Status D		
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF SuggestedRemedy Reserved Information 7 RIT8 Type values 0x0	tion TLV type values for Table TLV types 03-0xFD Table 57-6 not to b	be sent	ICS entries:	Proposed Respon Cl 57 SC S Braga, Aldobino Comment Type	57.7.6 E Commar	Р 250 UNH-IOL		
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF SuggestedRemedy Reserved Information 1 RIT8 Type values 0x0 RIT9 Type value 0xFF	tion TLV type values for Table TLV types 03-0xFD Table 57-6 not to b F Table 57-6 not to be sent	be sent	ICS entries:	Proposed Respon Cl 57 SC S Braga, Aldobino Comment Type The Reserved	57.7.6 E Commar 0, 03-FF	P 250 UNH-IOL Comment Status D		
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF SuggestedRemedy Reserved Information 1 RIT8 Type values 0x0 RIT9 Type value 0xFF	tion TLV type values for Table TLV types 03-0xFD Table 57-6 not to b F Table 57-6 not to be sent	be sent	ICS entries:	Cl 57 SC S Braga, Aldobino Comment Type The Reserved Table 57-5: 0	57.7.6 E Commar 0, 03-FF	P 250 UNH-IOL <i>Comment Status</i> D nd values for Table 57-5 have		
Comment Type E The Reserved Informat Table 57-6: 03-FD, FF SuggestedRemedy Reserved Information 1 RIT8 Type values 0x0 RIT9 Type value 0xFF	tion TLV type values for Table TLV types 03-0xFD Table 57-6 not to b F Table 57-6 not to be sent	be sent	ICS entries:	Cl 57 SC S Braga, Aldobino Comment Type The Reserved Table 57-5: 0 SuggestedRemed Reserved Loo RIT6 Comma	57.7.6 E Commar 0, 03-FF y pback co and value	P 250 UNH-IOL <i>Comment Status</i> D nd values for Table 57-5 have	no PICS entries	

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 80 of 130 CI 57

SC 57.7.6

P802.3ah Draft 3.1 C	omments
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Proposed Response

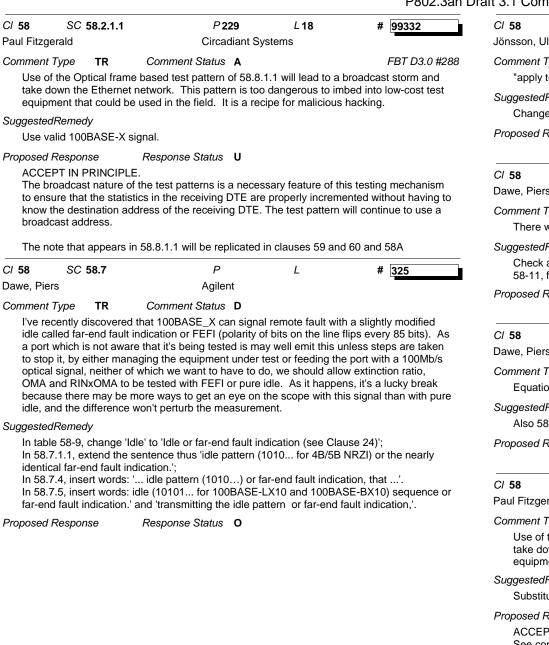
Response Status 0

L11

L6

394

334



C/ 58 Jönsson, Ulf	SC 58	3.7		2 62 csson	L 4	# 252
Comment Ty		E es 58. Cl	Comment State ause 59, and Cla	us D		
SuggestedR	emedy		uses 58, 59, and			
Proposed Re			Response Statu			
C/ 58	SC 58	3.7.1		^D 266	L 15	# 362
Dawe, Piers Comment Ty There wa	•	T e issue v	Agi <i>Comment Stati</i> vith how we acco		es in this table.	
SuggestedR	e <i>medy</i> gain an	d change	e any of the follow			ble 58-10, '38' in table
Proposed Re	esponse	Э	Response Statu	ıs O		
CI 58 Dawe, Piers	SC 58	3.7.7.3		269 ilent	L 37	# 664
Comment Ty Equatior	1	E ed out in	Comment State	us D		
SuggestedR Also 58.	-	eqn (58-1	13)			
Proposed Re	esponse	e	Response Statu	is O		
CI 58		able 58-1		^{>} 229	L 12	# 99333
Paul Fitzgera				cadiant Sy	/stems	
take dow	, ne Optio n the E	thernet	network. This par	rn of 58.8. ttern is too		FBT D3.0 #287 proadcast storm and bed into low-cost test hacking.
SuggestedR Substitut		Valid 100)BASE-X signal.			
Proposed Re ACCEPT	•		Response Statu	ıs U		

			P602.3an D	rait 3.1 Comm	ients			
C/ 58 SC Table 58	B-11 P 265	L 37	# 253	C/ 59	SC 59.1.2	P 291	L 10	# 665
Jönsson, Ulf	Ericsson			Dawe, Piers		Agilent		
Comment Type T	Comment Status D			Comment Typ	pe E	Comment Status D		
vanilla idles plus one l	t the near minimum inter-packet gap (IPG) of 14 octets is the number of plain lus one ESD, we either have to add an extra byte to this field so that it adds s or remove the footnote.			"Because of the way the file was recovered, we have some extra blank lines which are throwing up change bars"				
SuggestedRemedy				SuggestedRe	-			
,	f octets to 38 or remove the for	otnote				clause, the anchor for the fig at the end of the previous lin		
Proposed Response	Response Status O			Proposed Re	•	Response Status O		
				,		,		
C/ 58 SC Table 58	3-5 P 224	L16	# 99334	C/ 59	SC 59.1.2	P 291	L11	# 363
Paul Fitzgerald	Circadiant Sys	stems		Dawe, Piers		Agilent		
Comment Type TR The TDP test is not ac	Comment Status R chieving widespread support.		TDP D3.0 #289	Comment Typ Empty lin		Comment Status D		
SuggestedRemedy				SuggestedRe	emedy			
Change to a Path Pen	alty Test with a minimum spec	ified amount of	dispersion in the test	Remove	unwanted line	e feed with care. And severa	Il more, associate	d with figures.
fiber.				Proposed Re	sponse	Response Status 0		
Proposed Response	Response Status U							
REJECT. See comment 296				C/ 59	SC 59.1.5.3	P 292	L3	# 361
	D.256	L7	# 00005	Dawe, Piers		Agilent	-0	
C/ 59 SC 59.1 Booth, Brad	P 256 Intel	LI	# 99335	Comment Ty	pe E	Comment Status D		
Comment Type TR	Comment Status A		BB D3.0 #786			error ratio objective'.		
21	econd paragraph is very disjoir	nted.	DD D3.0 #700	SuggestedRe	emedy			
SuggestedRemedy				Change i	t to 'specified	bit error ratio'.		
,	nce of paragraph to read:			Proposed Re	sponse	Response Status 0		
A 1000BASE-LX10 ar	nd 1000BASE-BX10 PHY (phys							
	d PMA with the respective PMI and PMA in Clause 66 shall b			C/ 59	SC 59.10.3.5	5 <i>P</i> 318	L 23	# 332
1000BASE-X PCS and	d PMA shall be integrated. The	e management		Dawe, Piers	00 00.10.0.0	Agilent	L 23	# 332
0	e optional Management Interfa	ce.		Comment Ty	pe E	Comment Status D		
Proposed Response ACCEPT IN PRINCIP	Response Status ULE.			Consister		5 OM4 says 'Optical power' w	vhile 58.10.3.5 Of	M4 and 60.10.4.6 OM3
	se, a shall is not appropriate in	this context.		SuggestedRe	emedy			
	will be changed to: o the 1000BASE-X PMA of Cla tionally combined with the man			I would g and OMA		ge optical power' to avoid co	nfusion between a	average optical power
	e management interface define			Proposed Re	sponse	Response Status O		

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 83 of 130 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 59

			F002.3all D	raft 3.1 Comments	
C/ 59 SC 59.7.1 Dawe, Piers	P 302 Agilent	L 5	# 326	C/ 59 SC Table 59-5 Paul Fitzgerald	P 263 L 19 Circadiant Systems
Comment Type T Are we being too lenie mask measurement?	Comment Status D ent in saying that any valid 8B/	10B encoded sig	nal will do for eye	The TDP test is not achiev	Comment Status R ring widespread support.
SuggestedRemedy Consider changing to	random pattern test frame.			SuggestedRemedy Change to a Path Penalty fiber.	Test with a minimum specified amount
Proposed Response	Response Status O			Proposed Response F REJECT. See 296	Response Status U
C/ 59 SC 59.7.11 Dawe, Piers	P 307 Agilent	L 43	# 327	C/ 59 SC Table 59-8 Paul Fitzgerald	P 266 L 27 Circadiant Systems
Comment Type E ref *58.7.10*.	Comment Status D				Comment Status R ring widespread support.
SuggestedRemedy Make the link and clea	an up ref * *			SuggestedRemedy	
Proposed Response	Response Status O			Change to a Path Penalty fiber.	Test with a minimum specified amount
C/ 59 SC 59.7.4 Dawe, Piers	P 306 Agilent	L 6	# 666	Proposed Response F REJECT. See 289	Response Status U
Comment Type E Two spaces in 'idles.	Comment Status D			C/ 60 SC 60.1 Booth, Brad	P 286 L 9 Intel
SuggestedRemedy ?				Comment Type TR Last sentence of first parage	Comment Status A graph seems disjointed.
Proposed Response	Response Status O			SuggestedRemedy Change second sentence A 1000BASE-PX10-D and	of paragraph to read: 1000BASE-PX10-U PHY (physical lay
CI 59 SC Table 59	9-13 P 269	L12	# 99336	combination of a 1000BAS	E-X PCS and PMA with the respective
Paul Fitzgerald	Circadiant Sy	stems		otherwise, the Clause 36 1	1000BASE-X PCS and PMA as modifie
Comment Type TR	Comment Status A		FBT D3.0 #295	Management Interface.	ent functions may be accessible throug
to a broadcast storm a entered. This pattern	attern test frame Optical frame and take down the Ethernet ne is too dangerous to imbed into a recipe for malicious hacking	twork when broad	adcast mode is	Proposed Response F ACCEPT IN PRINCIPLE.	Response Status U
SuggestedRemedy Substitute with Valid 1	000BASE-X signal.			The second sentence will b	shall is not appropriate in this context. be changed to: or a 1000BASE-PX-D PMD is connecte
Proposed Response ACCEPT IN PRINCIP See comment 288	Response Status U			1000BASE-X PMA of Clau combined with the manage	or a 1000BASE-PA-D PMD is connected ise 66, and to the medium through the ement functions that may be accessible ined in Clause 22 or by other means.

Circadiant Systems Comment Status R TDP D3.0 #291 hieving widespread support. alty Test with a minimum specified amount of dispersion in the test Response Status U -8 P 266 L 27 # 99338 **Circadiant Systems** Comment Status R TDP D3.0 #293 hieving widespread support. alty Test with a minimum specified amount of dispersion in the test Response Status U P 286 L 9 # 99339 Intel Comment Status A BB D3.0 #787 paragraph seems disjointed. nce of paragraph to read: and 1000BASE-PX10-U PHY (physical layer) device is a BASE-X PCS and PMA with the respective PMD. If the optional e 1000BASE-X PCS and PMA in Clause 66 shall be integrated; 36 1000BASE-X PCS and PMA as modified by 65.3 shall be gement functions may be accessible through the optional Response Status U .E. se, a shall is not appropriate in this context. will be changed to: MD or a 1000BASE-PX-D PMD is connected to the appropriate Clause 66, and to the medium through the MDI. A PMD is optionally nagement functions that may be accessible through the

99337

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 84 of 130 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 60

SC 60.1

C/ 60 SC 60.1.5.4	P 325	L 13	# 360	C/ 60 SC 60.10.4.6	P 350	L 24	# 330
lawe, Piers	Agilent			Dawe, Piers	Agilent		
<i>Comment Type</i> E This needs updating: 'er	Comment Status D ror rate objective'.			Comment Type T OM1 subclause entry ha	Comment Status D is gone wrong somehow.		
SuggestedRemedy Change it to 'specified b	it error ratio'.			SuggestedRemedy Suggest delete it and ins	sert new link to 60.7.		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 60 SC 60.1.5.4 Grow, Robert	P 325 Intel	L13	# 412	C/ 60 SC 60.10.4.6 Dawe, Piers	Р 350 Agilent	L 26	# 329
most common objective 60.1.1 item d.	Comment Status D e of "error rate" still exists. T in this context that would ca			Can be the same as in 5 SuggestedRemedy	Comment Status D ent needs revision to keep i 9.10.3.5. Sorry to make this		
SuggestedRemedy Change "error rate" to "e	error ratio" per my accepted	D3.0 comment #	528.	Shorten to: Per TIA/EIA-455-127 un	der modulated conditions		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 60 SC 60.10.2.2 Dawe, Piers	Р 347 Agilent	L 4	# 365	Cl 60 SC 60.7.13.1.2 Dawe, Piers	2 P 339 Agilent	L 40	# 328
Comment Type E Please make the table fu	Comment Status D			Comment Type E Empty line	Comment Status D		
SuggestedRemedy				SuggestedRemedy Delete any redundant lin	e feed.		
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 60 SC 60.10.4.3 Dawe, Piers	P 348 Agilent	L 50	# 366				
Comment Type E Orphan title	Comment Status D						
SuggestedRemedy Maybe delete any blank	line following it?						
	-						

P337	/ 16	# 331	C/ 60 SC 60 7 4	P337	/ 24	# 667		
Agilent	- 10		Dawe, Piers	Agilent		<i>"</i> 001		
Comment Type TR Comment Status D This short subclause needs updating as we have done everywhere else to move the emphasis from the measurement to the conformance. It looks like we avoided 'node' in a specification item because it isn't clearly defined in 1.4. SuggestedRemedy Change from: Optical power shall be measured using the methods specified in ANSI/EIA-455-95 [B7]. This measurement may be made with the node transmitting any valid encoded 88/108				Comment Status D . The'?				
				Response Status 0				
This measurement may be made with the node transmitting any valid encoded 8B/10B data stream. to: Optical power shall meet specifications according to the methods specified in ANSI/EIA-			CI 60 SC 60.8.1 Paul Fitzgerald		L8 vstems	# 99340		
455-95. A measurement may be made with the port transmitting any valid encoded 8B/10B data stream. Also, change PICS to: Per TIA/EIA-455-95				Comment Status A ern rather than live traffic.		FBT D3.0		
Response Status O			SuggestedRemedy Use valid or live 100	0BASE-X traffic for all stressed	receiver conform	nance tests in		
P 337 Agilent	L 21	# 333			with the approp	riate references		
Comment Status D			C/ 60 SC 60.9.3	P 345	L18	# 364		
	A-526-4A using	patch cable per 59 7	Dawe, Piers	Agilent				
ns and fourth-order Bessel-Th nethods specified in ANSI/TIA	omson receiver /EIA-526-4A-19	, 60.10.4.6 OM4 says 97 [B13]'. Clause 58	Comment Type E Empty line?	Comment Status D				
on the patch cable again, as it ssel-Thomson receiver in cla	has its own PIC use and PICS, ju	S. Editorially, we	SuggestedRemedy If so, remove unwanted line feed. Also at line 52?					
ologies if we went over all this	alast time!		Proposed Response	Response Status 0				
nt.' ICS in both 59.10.3.5 OM5 a -4A with minimal back reflect owing for PICS in both 59.10. -4A with minimal back reflect by reference: change conten	nd 60.10.4.6 OM ions and fourth-c 3.5 OM5 and 60 ions ts to:	14: order Bessel-Thomson .10.4.6 OM4:						
	Comment Status D eeds updating as we have do asurement to the conformance use it isn't clearly defined in the measured using the methods y be made with the node trans- eet specifications according to nt may be made with the port Per TIA/EIA-455-95 <i>Response Status</i> O <i>P</i> 337 Agilent <i>Comment Status</i> D to 59 and 60. 5 OM5 says 'Per ANSI/TIA/EI as and fourth-order Bessel-The tethods specified in ANSI/TIA/EI as and fourth-order Bessel-The tethods specified in ANSI/TIA/EI as sel-Thomson receiver in cla blogies if we went over all this as into 58.7.4, 59.7.4, 60.7.4: the frequency response as sp nt.' ICS in both 59.10.3.5 OM5 a -4A with minimal back reflection by reference: change contening the second sec	Agilent Comment Status D eeds updating as we have done everywhere asurement to the conformance. It looks like wave it isn't clearly defined in 1.4. measured using the methods specified in AN y be made with the node transmitting any value with the node transmitting any value et specifications according to the methods spectra the specifications according to the methods specifications and fourth-order Bessel-Thomson receiver the specification the specification (deliberately) so its in the patch cable again, as it has its own PIC spologies if we went over all this last time! a into 58.7.4, 59.7.4, 60.7.4: the frequency response as specified for the tr nt.' ICS in both 59.10.3.5 OM5 and 60.10.4.6 OM -4A with minimal back reflections and fourth-order -4A with minimal back reflections and fourth-4D -4A with minimal back reflections and four	Agilent Comment Status D eeds updating as we have done everywhere else to move the asurement to the conformance. It looks like we avoided 'node' in a fause it isn't clearly defined in 1.4. measured using the methods specified in ANSI/EIA-455-95 [B7]. y be made with the node transmitting any valid encoded 8B/10B eet specifications according to the methods specified in ANSI/EIA- the provide the mode transmitting any valid encoded 8B/10B Per TIA/EIA-455-95 Response Status O $P337 L21 \# 333$ Agilent Comment Status D to 59 and 60. 5 OM5 says 'Per ANSI/TIA/EIA-526-4A using patch cable per 59.7, ss and fourth-order Bessel-Thomson receiver', 60.10.4.6 OM4 says entods specified in ANSI/TIA/EIA-526-4A.1997 [B13]. Clause 58 neasurement description (deliberately) so its PICS differs. It seems in the patch cable again, as it has its own PICS. Editorially, we ssel-Thomson receiver in clause and PICS, just clause, or neither slogies if we went over all this last time! into 58.7.4, 59.7.4, 60.7.4: the frequency response as specified for the transmitter optical nt.' ICS in both 59.10.3.5 OM5 and 60.10.4.6 OM4: A with minimal back reflections and fourth-order Bessel-Thomson wing for PICS in both 59.10.3.5 OM5 and 60.10.4.6 OM4: A with minimal back reflections and fourth-order Bessel-Thomson incion ratio procedure for 1000BASE-PX is as defined in 58.7.7.	Agilent Dawe, Piers Comment Status D Comment Status D eeds updating as we have done everywhere else to move the asurement to the conformance. It looks like we avoided 'node' in a uuse it isn't clearly defined in 1.4. Two spaces in 'idles measured using the methods specified in ANSI/EIA-455-95 [B7]. y be made with the node transmitting any valid encoded 8B/10B Proposed Response Per TIA/EIA-455-95 Response Status O C/ 60 SC 60.8.1' Pailent Comment Type TR Comment Status D Comment Type TR Requires a test patter SuggestedRemedy Y = 737 L 21 # 333 Agilent SuggestedRemedy Comment Status D Comment Status D to 59 and 60. S C 60.9.3 5 OMS says Per ANSI/TIA/EIA-526-4A-1997 [F13]. Clause 58 neasurement description (deliberately) so its PICS differs. It seems in the patch cable again, as it has its own PICS. Editorially, we seel-Thomson receiver in clause and PICS, just clause, or neither -plogies if we went over all this last time! SuggestedRemedy *:into 58.7.4, 59.7.4, 60.7.4: the frequency response as specified for the transmitter optical nt.' SuggestedRemedy (IS in both 59.10.3.5 OMS and 60.10.4.6 OM4: -4A with minimal back reflections by yreference: change contents to: nciton ratio procedure for 1000BASE-PX	Agilent Dawe, Piers Agilent Comment Status D eeds updating as we have done everywhere else to move the asurement to the conformance. It looks like we avoided 'node' in a use it isn't clearly defined in 1.4. Dawe, Piers Agilent measured using the methods specified in ANSI/EIA-455-95 [B7]. y be made with the node transmitting any valid encoded 8B/10B Two spaces in 'idles. The'? wet specifications according to the methods specified in ANSI/EIA-455-95 Response Status O Per TIA/EIA-455-95 Response Status O Pail Tizgeraid Circadiant Sy Comment Status O Circadiant Sy Pail Tizgeraid Circadiant Sy Pail Fizzgeraid Circadiant Sy Comment Status D Comment Type Comment Type Agilent Comment Type E Comment Status D Comment Status D Circadiant Sy Circadiant Sy Circadiant Sy SuggestedRemedy Use valid or live 1000BASE-X traffic for all stressed Proposed Response Response Status D Comment Status D Ci 60 SC 60.9.3 P345 Dawe, Piers Agilent <tr< td=""><td>Agilent Dawe, Piers Agilent Comment Status D exeds updating as we have done everywhere else to move the asurement to the conformance. It looks like we avoided 'node' in a suse it in't clearly defined in 1.4. Dawe, Piers Agilent measured using the methods specified in ANSI/EIA-to the performance with the node transmitting any valid encoded 8B/10B Comment Status O Per TIA/EIA-455-95 Response Status O Pagient Comment Status Agilent Comment Status O Comment Type TR Comment Status Agilent Comment Status O Comment Status Agilent Comment Status Agilent Comment Status D Comment Status Agilent Comment Status Agilent Comment Status D Comment Status Comment Status D Agilent Comment Status D Comment Status D Agilent Comment Status D Cold So So So Sy Per ANSI/TIA/EIA-526-4A using patch cable per 53.7, is and fourth-order Bessel-Thomson receiver in clause and PICS, just clause, or neither-lologies if we went over all this last time! Comment Type E Comment Status D Cis in both 59.10.3.5 OMS a</td></tr<>	Agilent Dawe, Piers Agilent Comment Status D exeds updating as we have done everywhere else to move the asurement to the conformance. It looks like we avoided 'node' in a suse it in't clearly defined in 1.4. Dawe, Piers Agilent measured using the methods specified in ANSI/EIA-to the performance with the node transmitting any valid encoded 8B/10B Comment Status O Per TIA/EIA-455-95 Response Status O Pagient Comment Status Agilent Comment Status O Comment Type TR Comment Status Agilent Comment Status O Comment Status Agilent Comment Status Agilent Comment Status D Comment Status Agilent Comment Status Agilent Comment Status D Comment Status Comment Status D Agilent Comment Status D Comment Status D Agilent Comment Status D Cold So So So Sy Per ANSI/TIA/EIA-526-4A using patch cable per 53.7, is and fourth-order Bessel-Thomson receiver in clause and PICS, just clause, or neither-lologies if we went over all this last time! Comment Type E Comment Status D Cis in both 59.10.3.5 OMS a		

Proposed Response Response Status 0

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

FBT D3.0 #300

P802.3ah D	Praft 3.1 Comments
C/ 60 SC Table 60-5 P 293 L 19 # 99341 Paul Fitzgerald Circadiant Systems Circadiant Systems Paul Systems Circadiant Systems Paul Systems	C/ 61 SC 61 P 353 L 1 # 201 Beck, Michael Alcatel Bell nv
Comment TypeTRComment StatusRTDP D3.0 #296The TDP test is not achieving widespread support.	Comment Type E Comment Status D Clause title is inaccurate.
SuggestedRemedy Change to a Path Penalty Test with a minimum specified amount of dispersion in the test fiber. Proposed Response Response Status U	SuggestedRemedy Change Clause title to: 61. Physical Coding Sublayer (PCS), Transmission Convergence (TC) sublayer, and common specifications, type 10PASS-TS and type 2BASE-TL
REJECT. TDP is a dispersion based path penalty test and is the more comprehensive of the two. If it were substituted by path pealty, then additional tests would have to be adderd. TDP testing has been under development for ~3 years in 10G and is accepted in this community. An alternative testing mechanism would need considerable scrutiny before it could be implemented.	Proposed Response Response Status O C/ 61 SC 61.1 P 354 L 20 # 376 Beili, Edward Actelis Networks
·	Comment Type T Comment Status D
CI 60 SC Table 60-8 P 296 L 31 # 99342 Paul Fitzgerald Circadiant Systems Circadiant Systems Comment Type TR Comment Status R TDP D3.0 #298 The TDP test is not achieving widespread support. TDP D3.0 #298	The draft text calls the CO - "centralized distribution equipment" and CPE - "line termination equipment owned or controlled by a subscriber ". In the xDSL world (see ITU-T 993.1 and 995.1 for example) the CO side is called Line Termination (LT) and the CPE side is called Network Termination (NT). In addition in some cases the CPE may be owned and controlled by an operator (carrier).
SuggestedRemedy Change to a Path Penalty Test with a minimum specified amount of dispersion in the test fiber. Proposed Response Response Status U REJECT.	SuggestedRemedy Replace lines 20-21 with: "between centralized line termination equipment, such as a Central Office (CO), and network termination equipment at the remote customer premises (Customer Premises Equipment, CPE)."
See # 296	Proposed Response Response Status O
Cl 61 SC 61 P L # 370 Dawe, Piers Agilent Agilent Comment Type TR Comment Status D	C/ 61 SC 61.1.1 P 354 L 44 # 508 Schneiderheinze, Burkart Infineon Technologies
Surprisingly, nowhere in the draft is there a statement of which RS the 2BASE-TL and 10PASS-TS PHYs connect to. Even if the editors believe that it's 'obviously' clause 22, that doesn't mean it's the case: one would not obviously expect low-speed PHYs to use the 10G MDIO clause 45, but they do. Or, there could be new PHY-specific RSs for these PHYs. Further, if it's clause 22, can I run it at 10 Mb/s for 10PASS-TS? I can't tell from this draft.	Comment Type E Comment Status D term 3.4.1. is not a register, it is a bit SuggestedRemedy change text to 'parts of register 3.4'
SuggestedRemedy	Proposed Response Response Status O
Whatever the situation is, explain it at appropriate length in 61, and provide the chief editor with a single sentence for the end of 56.1.2.2. Correct and better my suggestion: 'EFM electrical {links connections} use the reconciliation sublayer of clause 22 operating at {10 100} Mb/s.' Thanks!	

Proposed Response Response Status **O**

 TYPE: TR/technical required T/technical E/editorial
 COMMENT STATUS: D/dispatched A/accepted R/rejected
 SORT ORDER: Clause, Page, Line, Subclause
 Pag

 RESPONSE STATUS: O/open
 W/written C/closed
 U/unsatisfied Z/withdrawn
 C/

C/ 61 SC 61.1.1 Cravens, George	P 354 Mindspeed	L 45	# 579	C/ 61 SC 61.1.4.1 Barry, O'Mahony	P 356 Intel	L 30	# 422
Comment Type E Register 3.73 also appl	Comment Status Dies.			Comment Type E C hyphen between "data" and	<i>comment Status</i> D "interface" unnecessary.		
SuggestedRemedy Change " 3.60 throug	h 3.72 specified in"			SuggestedRemedy remove it.			
to: " 3.60 through 3.7	'3 specified in"			Proposed Response Re	esponse Status O		
Proposed Response	Response Status O						
				C/ 61 SC 61.1.4.1.1 Booth, Brad	P 357 Intel	L 6	# 559
C/ 61 SC 61.1.1. Schneiderheinze, Burkart	P 354 Infineon Techr	L 45	# 445	Comment Type T C	omment Status D		
Comment Type E wrong register number	Comment Status D	ologico		I'm a bit concerned about how this is worded. MII is an exposed interface; therefore compliant point. There is no statement about compliance with that point. MII also in the management interface, but you make no compliance statement about including of excluding it (only that these ports do not utilize the management interface).			
SuggestedRemedy	accordingly, if any registers a	re added or ren	poved during the	SuggestedRemedy	•	0	,
meeting)	accordingly, if any registers a		loved during the	Change the text to read:			
Proposed Response	Response Status O			10PASS-TS and 2BASE-TL recommended that 10PASS interface as specified Claus	-TS and 2BASE-TL mana		
C/ 61 SC 61.1.2 Barry, O'Mahony	P 354 Intel	L 54	# 420	Proposed Response Re	esponse Status O		
Comment Type E Unclear what "without i	Comment Status D nterference" means.			C/ 61 SC 61.1.4.1.1 Cravens, George	P 357 Mindspeed	L 7	# 580
SuggestedRemedy Delete these two words	5.			Optional support for the Cla			
Proposed Response	Response Status O			declared that the clause 22	management interrace wil	i not be support	led.
				SuggestedRemedy Change the end of the sente	ence from: "described in 2	2.2.4."	
				5			
	P 356 Intel	L 30	# 421	to: " described in 22.2.4, I in Clause 45."	out may optionally utilize t	he managemen	t interface described
Barry, O'Mahony Comment Type T	Intel Comment Status D T1.424/Trial-Use, while Claus			in Clause 45."	out may optionally utilize t	he managemen	t interface described
Barry, O'Mahony Comment Type T Figure 61-1 references reference ANSI T1.424	Intel Comment Status D T1.424/Trial-Use, while Claus			in Clause 45."		he managemen	t interface described
Barry, O'Mahony Comment Type T Figure 61-1 references reference ANSI T1.424 SuggestedRemedy	Intel Comment Status D T1.424/Trial-Use, while Claus	e 62 was chang	ged in D3.1 to	in Clause 45."		he managemen	t interface described

C/ 61 SC 61.1.4.4 Schneiderheinze, Burkart		L 7 ologies	# 509	Cl 61 SC 61. Schneiderheinze, Bu	.1.4.1.4 urkart	P 357 Infineon Techn	L 54 ologies	# 510
	Comment Status D d how 10PassTS and 2BASE-TL	utilizes anothe	r management	Comment Type E abbreviation IB r		Comment Status D		
interface				SuggestedRemedy				
SuggestedRemedy	agement interface according to c	louco 45 1 (ovt	ancions to MDIO with	add an entry for	IB (indica	tor bits??) to the abbreviation	on list	
MMD concept) will be				Proposed Response	•	Response Status O		
Proposed Response	Response Status 0							
				C/ 61 SC 61	.1.5.3	P 358	L 51	# 511
C/ 61 SC 61.1.4.1	1.2 P 357	L 15	# 410	Schneiderheinze, Bu	urkart	Infineon Techn	ologies	
Grow, Robert	Intel			Comment Type	г	Comment Status D		
Comment Type TR	iorthoirbonoctu Itio			PME Avail. Register, the F enabling the links	ME Avail mus	t only allow the		
though unconcionable if they knew it was inc	ponsible for inclusion of this not e if any member of the Task For complete in implementing chang or ballot recirculation is not the tir	ce voted to reci es required by	rculate this document D3.0 comment	SuggestedRemedy add a note that t up	he same	PME may not be listed in di	fferent PME av	vail. register at line star
problem.				Proposed Response		Response Status 0		
	r's note suggestion that the curre first paragraph of 22.2.2.9.	ent draft is inco	nsistent with Clause	· · ·		·		
SuggestedRemedy				C/ 61 SC 61.	.1.5.3.1	P 359	L 4	# <u>583</u>
,	adding a subclause to 61 (and a	nv other new cla	ause if required) that	Cravens, George		Mindspeed		
describes the diverge PHY layers (e.g., 100	ence from the MII specification. DBASE-T), CRS is not always de	Specifically stat asserted when	e that unlike other both the receive and	Comment Type E There are three		<i>Comment Status</i> D scussed, the PCS, TC, and	PMA/PMD (sh	own in Figure 61-3 and
rate to that of the PH	idle. CRS may be asserted by t Y.	ne PHY to redu	ice the effective MAC	discussed as the	e PME).			
Proposed Response	Response Status O			SuggestedRemedy		,		
				Change the secord " assume that		nce from: MMDs are used: PCS (MME	9=3), and TC (I	MMD=TBD)."
C/ 61 SC 61.1.4.1 Grow, Robert	1.2 P 357 Intel	L 20	# 556			nree MMDs are used: PCS vn as PME in Figure 61-3)."	(MMD=3), TC	(MMD=6), and
Comment Type TR	Comment Status D			Proposed Response	, ,	Response Status O		
••	CRS. The MAC uses carrierSe	nse which is ma	apped from CRS (see					
MAC does not check note in 22.2.1.3.3).								
note in 22.2.1.3.3).								
note in 22.2.1.3.3). SuggestedRemedy Prior to transmission,	, the MAC checks the carrierSen not transmit another frame as lo							

Page 89 of 130 C/ 61 SC 61.1.5.3.1

P802.3ah Draft 3.1 Comments C/ 61 SC 61.1.5.3.1 P 359 L 5 # 581 C/ 61 SC 61.1.5.3.3 P361 L49 # 448 Cravens, George Mindspeed Schneiderheinze. Burkart Infineon Technologies Comment Type E Comment Status D Comment Type E Comment Status D The TC MMD is 6. Register numbering changed SuggestedRemedy SuggestedRemedy Change TBD to 6. change x.3.48 and x.3.49 to x.3.64 and x.3.65. This appiles also to Tables 61-4, 61-5, 61-6 Proposed Response Response Status 0 Proposed Response Response Status **O** SC 61.1.5.3.1. P 359 L5# 446 C/ 61 SC 61.1.5.3.3 P362 C/ 61 L 44 # 513 Schneiderheinze, Burkart Infineon Technologies Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D Comment Type E Comment Status D MMD undefined footnote applies to all 3 table SuggestedRemedy SuggestedRemedy change MMD = TBD to MMD = 6put the footnote a to all 3 tables Response Status 0 Proposed Response Response Status 0 Proposed Response C/ 61 SC 61.1.5.3.2 P 361 L 33 # 512 C/ 61 SC 61.10.4.4 P408 L 33 # 203 Schneiderheinze. Burkart Infineon Technologies Beck. Michael Alcatel Bell nv Comment Status D Comment Status D Comment Type T Comment Type т accdg. to 45.2.3.19 1 PME may only be aggregatable to 1 MII PICS entries of former subclause 61.3.12 (now 61.4.8) seem to be out-of-date. SuggestedRemedy SuggestedRemedy add a note that this connectivity reflects the reset capability and has to be limitied as Look for occurrences of the verb "shall" in subclause 61.4.8, and create a PICS entry for described in 45.2.3.19 before enabling the links, applies to example b as well each of them. PICS entries HS-8 and HS-9 may become obsolete. Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 61 SC 61.1.5.3.2. P 359 L 38 # 447 C/ 61 SC 61.2.1.1 P363 L 24 # 584 Schneiderheinze, Burkart Infineon Technologies Cravens, George Mindspeed Comment Type E Comment Status D Comment Type Comment Status D E Register numbering changed Add the variable name and cross-reference for MII receive during transmit. SuggestedRemedy SuggestedRemedy change x.3.46 and x.3.47 to x.3.62 and x.3.63. This appiles also to Tables 61-1, 61-2, 61-3 Add the following after the sentence on line 23 (ends with while the MAC is transmitting.): Proposed Response Response Status 0 See MII receive during transmit, Clause 45.2.3.18. Proposed Response Response Status 0

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 90 of RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 61

Page 90 of 130 C/ 61 SC 61.2.1.1

P802.3ah Draft 3.1 Comments SC 61.2.2 C/ 61 P 365 L 39 # 601 C/ 61 SC 61.2.2.4.1 P369 L6 # 451 Squire. Matt Hatteras Networks Schneiderheinze. Burkart Infineon Technologies Comment Type Ε Comment Status D Comment Type E Comment Status D PMFPMF Description of expected sequence number: The second part of the first paragraph and the second paragraph are repeated some lines below (line 33, 42) literally. SugaestedRemedv SugaestedRemedv PME remove sentences 'As fragments are received, ...' and 'In addition to the expected Proposed Response Response Status 0 sequence number ...' Proposed Response Response Status 0 SC 61.2.2 P365 L 39 # 423 C/ 61 Barry, O'Mahony Intel C/ 61 SC 61.2.2.4.2 P369 / 43 # 453 Comment Status D Comment Type E Schneiderheinze. Burkart Infineon Technologies "PMEPME" Comment Type T Comment Status D SuggestedRemedy (anyQueueNonEmpty = TRUE) * (noFragmentProcessed = TRUE) (see state diagram) and the description in page 370, line 31 (any PME queue has been non-empty for delete 1 "PME" maxDifferentialDelay bit times without any fragment being processed) are not completely Response Status 0 Proposed Response equivalent: it does matter which queue is non empty SuggestedRemedy Combine (anvQueueNonEmpty = TRUE) * (noFragmentProcessed = TRUE) to just one C/ 61 SC 61.2.2. P365 L 39 # 449 transition condition: Schneiderheinze. Burkart Infineon Technologies noFragmentsProcessed Timer variable of type boolean that indicates whether at least one active queue has been non-Comment Type E Comment Status D empty for maxDifferentialDelay bit times at the bit rate of the PMD associated with that typo: Change PMEPME to PME queue. Each fragment processed on any queue restarts all per-queue timers. TRUE if a timeout of maxDifferentialDelay bit times has expired SuggestedRemedy FALSE if the timeout of maxDifferentialDelay bit times has not yet expired as described remove variable anyQueueNonEmpty (page 369, line 27) Proposed Response Response Status 0 change state diagram accordingly Proposed Response Response Status **O** C/ 61 SC 61.2.2.3 P 368 L 34 # 450 Schneiderheinze, Burkart Infineon Technologies C/ 61 SC 61.2.2.4.2 P369 L43 # 452 Comment Type E Comment Status D Schneiderheinze. Burkart Infineon Technologies Excessive capitalization :-) : change AGGREGATION to Aggregation Comment Status D Comment Type E SuggestedRemedy The transition conditions 'noFragmentsProcessed' and 'oneQueueNonEmpty' depend on as described the expiration of timers. To make this more obvious, add ' timer' to the variables. Proposed Response Response Status 0 SuggestedRemedv change to 'noFragmentsProcessed_Timer' and to 'oneQueueNonEmpty_Timer' in 61.2.2.4.2. and in Figure 61-11 Proposed Response Response Status **O**

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 91 of 130 C/ 61 SC 61.2.2.4.2

P802.3ah Draft 3.1 Comments C/ 61 SC 61.2.2.4.2 P370 L10 # 455 C/ 61 SC 61.2.2.5 P 371 L48 # 514 Schneiderheinze, Burkart Infineon Technologies Schneiderheinze, Burkart Infineon Technologies Comment Type T Comment Status D Comment Type T Comment Status D smallestFragmentSequenceNumber is missing not clear what exactly 'significantly' means SugaestedRemedv SuggestedRemedv add that therefore no extra buffer size per PME needs to be foreseen add smallestFragmentSequenceNumber: smallest sequence number of fragments at the head of per-PME queues Proposed Response Response Status **O** remove space in figure 61-11 Proposed Response Response Status 0 C/ 61 SC 61.2.2.6 P372 L 38 # 457 Schneiderheinze, Burkart Infineon Technologies P370 12 C/ 61 SC 61.2.2.4.2 # 454 Comment Type T Comment Status D Schneiderheinze, Burkart Infineon Technologies A maxFragmentSize fragment is currently 512+2 octets for header = 514 octets long. But Comment Type **T** Comment Status D receive buffer size definition is based on 512 octets. Definition of oneQueueNonEmpty: Furthermore 514 is not dividable by 4 as required in c). TRUE if at least one active queue has been non-empty for at least maxDifferentialDelay bit SuggestedRemedy times remove 'not' in a and b: min 64 and max 512 including PAF header. FALSE if all active queues have been non-empty for less than maxDifferentialDelay bit times Proposed Response Response Status 0 The FALSE condition is not the correct inverting of the TRUE condition (e.g. in the case that all queues are empty neither TRUE nor FALSE are fulfilled). SuggestedRemedy C/ 61 SC 61.2.2.6 P372 L 39 # 602 Change to 'FALSE otherwise' Squire, Matt Hatteras Networks Proposed Response Response Status 0 Comment Type TR Comment Status D What value does (d) add? According to 61,2,2,5, latency has to be controlled to meet restriction (a) in 61.2.2.5. Whats so special about 512-octets? What about 511-octets - is SC 61.2.2.4.4. P370 C/ 61 L 36 # 456 that really much different? Schneiderheinze, Burkart Infineon Technologies Anyway, it is redundant and misleading. Comment Type **T** Comment Status D SuggestedRemedy description for overflow misleading: change '... causes an overflow ...' to '... causes an frame length overflow ...'. Remove (d). This frame length overflow error is described in chapter 61.2.2.7.3. Proposed Response Response Status **O** If a buffer overflow in frame buffer (after reassembly) should be counted (like TC_PAF_Overflow does for fragment buffer), this error condition needed to be defined additionally. SuggestedRemedy change '... causes an overflow ...' to '... causes an frame length overflow ...' Proposed Response Response Status 0

C/ 61 SC 61.2.2. Schneiderheinze, Burkart		L 10 nnologies	# 458	C/ 61 SC 61.2.2.8.4 P 375 L 37 # 516 Schneiderheinze, Burkart Infineon Technologies
Comment Type E Typo:framgent	Comment Status D			Comment Type T Comment Status D no remote discovery register as real register with dedicated address defined in clause 45
SuggestedRemedy fix it				SuggestedRemedy define clause45.3 (PCS) remote_discovery_register (valid only for CPE types, read only,
Proposed Response	Response Status O			can only be modified using remote accesses) Proposed Response Response Status O
C/ 61 SC 61.2.2. Schneiderheinze, Burkart		L 3 nnologies	# 459	C/ 61 SC 61.2.3 P 376 L 49 # 517 Schneiderheinze, Burkart Infineon Technologies
Comment Type T Comment Status D One error condition is currently not handled: while packet assembly function is between frames a fragment with neither SoP nor EoP is received. Signal PAF_Lost can also be used for that condition, but we need a new variable missingStartOfPacket in the state diagram.				Comment Type E Comment Status D wrong cross ref SuggestedRemedy
SuggestedRemedy page 374, line 3: rem	nove 'the EndOfPacket bit asse Figure 61-11: add missingStart(update to 45.2.3.17.1 Proposed Response Response Status O
Proposed Response	Response Status O			C/ 61SC 61.2.3P 377L 39# 518Schneiderheinze, BurkartInfineon Technologies
C/ 61 SC 61.2.2.4 Schneiderheinze, Burkart		L 5 nnologies	# 515	Comment Type T Comment Status D no definition of remote_discovery_register given clause 45
only defined for the -	Comment Status D the remote_discovery_register R ports, neither aggregation_st		, but a variable which is	SuggestedRemedy define remote_discovery_register and assign address Proposed Response Response Status O
	s to Clause 45 (PCS part, valid emote address) or add a note f			C/ 61 SC 61.2.3. P377 L1 # 460
Proposed Response Response Status O			Schneiderheinze, Burkart Infineon Technologies	
				Comment Type E Comment Status D wrong Gamma-Signal name
				SuggestedRemedy change RxErr to Rx_Err
				Proposed Response Response Status O

P802.3ah Draft 3.1 Comments C/ 61 SC 61.2.3. P377 L44 # 461 C/ 61 SC 61.3.2.1 P 380 L13 # 520 Schneiderheinze, Burkart Infineon Technologies Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D Comment Type T Comment Status D PMA_PMD Type: accodg. to Cl45.2.1.12 a PM can support CPE and CO operation, coding wrong cross reference however does not allow operation of -O and -R device SugaestedRemedv SuggestedRemedv change to 45.2.6.3.1 define coding for all 6 different scenarios Proposed Response Response Status O Proposed Response Response Status 0 SC 61.3.1 P 379 L4 # 390 C/ 61 C/ 61 SC 61.3.2.2. P 380 L 28 # 462 kimpe, marc Adtran Schneiderheinze, Burkart Infineon Technologies Comment Status D Comment Type TR E Comment Status D Comment Type Comment applies to table 61-9. It was our initial intention to keep the gamma interface identical to G.993.1. It appears that signals have been added. I can understand the extra typo functionality needed for the optional PAF aggregation. I do not understand the need for the SuggestedRemedy TC link state bit. change clt t to clk t SuggestedRemedy Proposed Response Response Status 0 Either remove TC_link_state or use one of the existing gamma interface signal to carry its functionality Proposed Response Response Status O C/ 61 SC 61.3.3.1 P382 / 32 # 463 Schneiderheinze. Burkart Infineon Technologies C/ 61 SC 61.3.2 P 379 L 27 # 519 Comment Type **T** Comment Status D Infineon Technologies Schneiderheinze, Burkart 'No new fragment shall be transmitted when TC_link_state = FALSE (TC_link_state is defined in 61.3.3.7). If a fragment is being transmitted when TC link state becomes false, Comment Status D Comment Type E the End of Frame codeword completing the fragment shall not contain an S symbol after term PMD PME not correct the end of the fragment' does not describe the behaviour correctly, since the state machine was changed to react SuggestedRemedy immediately on TC_link_state changes. remove PMD SuggestedRemedy Proposed Response Response Status 0 Change to 'If a fragment is being transmitted when TC_link_state becomes false, the transmission of the fragment is aborted immediately." Proposed Response Response Status 0

C/ 61 SC 61.3.3.3. Schneiderheinze, Burkart	P 385 Infineon Techr	L 8 nologies	# 464	C/ 61 SC 61.3. Beck, Michael	3.5.2	P 387 Alcatel Bell nv	L 44	# 200
Comment Type T In the 2BASE-TL polyno to be removed. SuggestedRemedy remove terms	Comment Status D omial there is a mistake: in th	e first part term	s x^^20 and x^^23 have	Comment Type TR Figure 61-17 is not SuggestedRemedy Change text to: Th Figure 61-17.	introduced by a			nachine shown in
Proposed Response	Response Status O			Add corresponding Proposed Response	PICS entry. Response	Status O		
C/ 61 SC 61.3.3.5.1 Schneiderheinze, Burkart Scomment Type T reference to clause 45 i SuggestedRemedy add cross ref of reset to comment addressing th Proposed Response	register 3.6.xx (reset bit def	Ū	# 521		Comment finition TC_synchronize riable is now defin ommend combin	ned 3 different tim	es in 5 pages. definitions for	If it wasn't so late in all 3 state diagrams
C/ 61 SC 61.3.3.5.1 Schneiderheinze, Burkart	. P 387 Infineon Techr	L 12 nologies	# 465	Just be careful how Proposed Response	this variable is c Response	described so there	e is no conflictin	g definitions.
c) is a new requirement	Comment Status D 3.0 is covered fully by a) and compared to D3.0, that addit blicated than necessary.		the sync detection		Comment change in variable tern, forcing the r			# 202

C/ 61	SC 61.3.3.7.1.		L 35	# 466	-	SC 61.4.1	P 392	L 45	# 427
	neinze, Burkart	Infineon Techr	nologies		Barry, O'Maho	-	Intel		
Comment		Comment Status D	. , .	<i>,</i> , , ,	Comment Typ		Comment Status D		
		ed here needs to be flushed herwise the transmission mig				•	d at the April SG15 meeting.		
	egaining sync		gin otart mar a	incomplete hagment	SuggestedRei	-			
Suggested	Remedy						.994.1 (see Q4/15 liaison). Als	so update in Cla	iuse 1.
add ap	propriate hint her	e			Proposed Res	sponse	Response Status 0		
Proposed I	Response	Response Status O							
C/ 61	SC 61.3.3.7.2.	P 391	L 28	# 470					
Schneiderh	neinze, Burkart	Infineon Techr	nologies						
Comment Rx_Eo		Comment Status D ore in state diagram							
Suggested remove	Remedy e Rx_EoP definition	on							
Proposed I	Response	Response Status 0							
C/ 61	SC 61.3.3.7.2.	P 391	L 54	# 471					
Schneiderł	neinze, Burkart	Infineon Techr	nologies						
equal 6	on of decode(octe 64: not valid C(k).	Comment Status D et B) can be simplified: betwe d in state diagram	en 0 and 63: va	alid C(k), greater or					
Suggested change	Remedy e definition accord	lingly							
Proposed I	Response	Response Status O							
C/ 61	SC 61.3.3.8	P 392	L 25	# 522					
Schneiderh	neinze, Burkart	Infineon Techr	nologies						
Comment remote	51	Comment Status D I will be passed to clause 45	and missing in	management entitiy list					
	Remedy								
Suggested									
Suggested add rei		nized and cross reff to 45.2.6	.10						

Page 96 of 130 C/ 61 SC 61.4.1

C/ 61	SC 61.4.3		394 el Bell nv	L 54	# 208	C/ 61	SC 6	61.4.3	P 395	L 17	# 413
Beck, Mich						Barry, O'l		_	Intel		
	et V43 was create	Comment Status ed in ITU, as a react 2003) to ITU, statin	tion to the lia		E EFM Task Force	Commen Table		T a duplica	Comment Status D te of Table 3/G.994.1.		
for the					w toneset proposed				ted on behalf of ITU-T Q4 n G.994.1 instead of repr		r liaison requests that
		EFM Task Force, IT on toneset to be us				Suggeste Delet	,		ert reference to Table 3/G	6.994.1.	
V43 in	the US0-DS1 ba	nd has disappeared	I. Therefore,		a new toneset B4 or replace the toneset	Proposed	Respons	se	Response Status O		
		rently under discus	sion in ITU.			C/ 61	SC 6	51.4.8	P 396	L 30	# 523
	SuggestedRemedy Align the definition of mandatory tonesets in 10PASS-TS with a possible liaison to IEEE					Schneide	rheinze, E	Burkart	Infineon Te	echnologies	
	from ITU as a result of SG15/Q4 March 8-12, San Francisco meeting.				Commen	t Type	т	Comment Status D			
In the	absence of a liais	on from ITU, followi	ng resolutio	n is proposed:			ecessarily ed start u		messages have to be pre	eceded by MR/RE	Q-CLR message (i.eR
Table	61-13:					Suggeste	dRemedy	/			
D 40 (-)					rephr	ase sente	ence that	each CLR message migh	t be preceded by I	VR/REQ-CLR message
	a) , 17, 25; max pwr 57 383 511; max p					Proposed	Respons	se	Response Status 0		
E43 (a	a)					C/ 61	SC 6	51.4.8.1	P 396	L 48	# 524
	7, 45, 53; max pw 57 383 511; max p					Schneide	rheinze, E	Burkart	Infineon Te	echnologies	
D3. 23	57 363 511, IIIAX J	JWI -3.03 UBIII				Comment Type T Comment Status D					
US: 94	F43 (a,b) US: 944, 999, 1037; max pwr -16.65 dBm				remote discovery accesses only valuable if CPE sets PME Aggregation Discovery SPar(2) bit to 1(PAF available)						
DS: 25	57 383 511; max p	owr -3.65 dBm				Suggeste	dRemedy	/			
	 a) In some jurisdictions it may be necessary to limit the maximum downstream power level, for example -23.65 dBm/carrier where the PSD is limited to -60 dBm/Hz. b) It is expected that the sufficient power back-off is applied to the upstream tones of short lines to avoid excessive crosstalk into adjacent pairs during the handshake. 				add t	his note					
b) It is					Proposed	Respons	se	Response Status 0			
	ome jurisdictions	and F43 are manda the use of a particu			S. Add note: "Note of for regulatory						
Proposed	Response	Response Status	0								

C 61 SC 61.4.8.3 P 399 L 30 # 19 Barry, O'Mahony Intel Comment Type T Comment Status D As it currently stands, even, with changes made to D3.1, the text leaves the behavior of the first g.994.1 starup assesion at ELP message. Following gesaviors may be initiated either by the -O device (i.e. wake up out of silence) or by the -R device (i.e. silence period expired). At the conclusion of the first g.994.1 starup assesion atter power up, the -R device filence periods for ead as following g.994.1 transactions with a CLR or MR message. The research atter power up, the -R device filence periods (silence timer expired, or wake up acenario) the -R device filence periods (silence timer expired, or wake up acenario) the -R device shall begin g.994.1 transactions with and Research atter partner aggregation register operation are initiated (Table 45-59b), or link partner aggregation register operation are initiated (Table 45-59b), or link partner aggregation register operation are initiated (Table 45-59b), or link partner aggregation register operation are supported in register operation and to rub to a set to 1 in the -Q device (Table 45-10a), or discovery register operation of G.994.1 startup procedures by transmitting R-TONES. If the PMA/PMD link control bit is set to 1 in the -Q device (Table 45-10a), the -R device file device initiates G.994.1 startup procedures by transmitting R-TONES. If the PMA/PMD link control bit is set to 1 in the -Q device fable 45-10a), the -R device file device shall respond with an REQ-CLR? Partner aggregation register operation. How we device fable 45-10a), the -R device file device shall respond with an REQ-CLR? <td< th=""><th>C/ 61SC 61.4.8.1P 398L 7# 525Schneiderheinze, BurkartInfineon Technologies</th><th>C/ 61SC 61.4.8.3P 399L 30# 526Schneiderheinze, BurkartInfineon Technologies</th></td<>	C/ 61SC 61.4.8.1P 398L 7# 525Schneiderheinze, BurkartInfineon Technologies	C/ 61SC 61.4.8.3P 399L 30# 526Schneiderheinze, BurkartInfineon Technologies
Image CLR to CL on line 7, 25, 43 Response Response Status O Cl 61 SC 61,4.8.3 P399 L30 L3	A CLR message sent by the -R device is always followed by a CL (not a CLR message)	4 chapters beginning at line 30 just specify certain parts out of the entire activation, these parts do not consider experiences made in the past when bringing up systems controlled
Proposed Response Response Status O CI 61 SC 61.4.8.3 P399 L 30 # [419] Barry, OMahony Intel The first 994.1 session after Power Up, no matter where this is a discovery operation, should use the gas 1.4 is the sense of the part of	rename CLR to CL on line 7, 25, 43	, 0
CI 61 SC 614.8.3 P 399 L 30 # 419 Barry, O'Mahony Intel Comment Type T Comment Status D As it currently stands, even with changes made to D.3.1, the text leaves the behavior of the PH's when the PMA/PMD Link Control bit is set to one in the 'R, '10P/2B Link Control register (Tible 45-103), und feined. In fact, it states it is to one supported in all cases. g.994.1 -8, 'initiated startup and send a CLR message. Following sessions may be initiated regime of power up, the -R device (i.e. silence period expired). SUggested/Remedy Modify the text beginning at line 30 to read as follows: If the PMA/PMD link control bit is set to 1 in the -O device (Table 45-10a), or discovery register operations are initiated (Table 45-58b), or link partner aggregation register operation are initiated (Table 45-58b), or link partner aggregation register operation are initiated (Table 45-58b), or link partner aggregation register operation, ser initiated (Table 45-58b), or link partner aggregation register operation, ser initiated (Table 45-58b), or link partner aggregation register operations are initiated (Table 45-58b), or link partner aggregation register operation, ser initiated (Table 45-58b), or link partner aggregation register operation, ser initiated (Table 45-58b), or link partner aggregation register operation, ser initiated (Table 45-58b), or link partner aggregation register operation, ser initiated (Table 45-610a), or discovery register and initiated (Table 45-610a), or discovery operation and/or partner aggregation register operation, ser initiated (Table 45-58b), or link partner aggregation register operation, service with an RE_O-CLR NOTE—R' device initiated start-up is	Proposed Response Response Status O	remove 4 chapters and replace them by the following text: 'The first g.994.1 session after Power Up, no matter whether this is a discovery operation, a
Comment Type T Comment Status D As it currently stands, even with changes made to D3.1, the text leaves the behavior of the PMA/PMD Link Control bit is set to one in the "-R" 1'OP/2B Link Control pregister (Table 45-10a) undefined. In fact, it states it is out of scope. This needs to be fixed. Also, not all values of PMA/PMD by selection are supported in all cases. At the conclusion of the first g.994.1 startup session after power up, the -R device shall tegin following g.994.1 transactions with a CLR or MR message. After silence periods (silence timer expired, or wake up scenario) the -R device shall tegin following g.994.1 transactions with a CLR or MR message. After silence periods (silence timer expired, or wake up scenario) the -R device shall tegin following g.994.1 transactions with a CLR or MR message. After silence periods (silence timer expired, or wake up scenario) the -R device shall tegin following g.994.1 transactions with a CLR or MR message. Suggested/Remedy Modify the text beginning at line 30 to read as follows: If the PMA/PMD link control bit is set to 1 in the -O device (Table 45-10a), or discovery orgenations are initiated (Table 45-59c), the -O device frabe 45-10a), the -R device frabe 45-10a, the mather generations are initiated frabe 45-59c), the -O device frabe 45-10a), the -R device frabe 45-10a, the frabe 45-1		g.994.1 -R initiated startup and send a CLR message. Following sessions may be initiated either by the -O device (i.e. wake up out of silence) or by the -R device (i.e. silence period
If the PMA/PMD link control bit is set to 1 in the -O device (Table 45–10a), or discovery register operations are initiated (Table 45–59c), the -O device initiates G.994.1 startup procedures by transmitting C-TONES. If the PMA/PMD link control bit is set to 1 in the -R device (Table 45–10a), the -R device initiates G.994.1 startup procedures by transmitting R-TONES-REQ. NOTE—"-R" device initiated start-up is outside the scope of this standard. {delete Note} At the conclusion of G.994.1 startup, the "-R" device shall begin G.994.1 transactions by transmitting an MR message. If the G.994.1 session was initiated by the PMA/PMD link control bit (signifying that the link is to be brought up) in either the "-O" or "-R" device, then the "-O" device shall respond with an MS message specifying the configured mode of operation. REQ-CLR so that a capabilities is performed. Following the final message of the capabilities exchange (i.e., an ACK(1)), the "-R" device once again sends an MR message. The "-O" device shall respond with an MS message specifying the configured mode of operation.	As it currently stands, even with changes made to D3.1, the text leaves the behavior of the PHYs when the PMA/PMD Link Control bit is set to one in the "-R "10P/2B Link Control register (Table 45-10a) undefined. In fact, it states it is out of scope. This needs to be fixed. Also, not all values of PMA/PMD type selection are supported in all cases. SuggestedRemedy	begin following g.994.1 transactios with a CLR or MR message. After silence periods (silence timer expired, or wake up scenario) the -R device shall begin g.994.1 transactions with an MR message. If the g.994.1 session was initiated by the PMA/PMD link control bit (see 45.2.1.11) preceding discovery operation and/or partner aggregation register operation, then the -o device shall respond with an MS message specifiying the configured mode of operation,
If the PMA/PMD link control bit is set to 1 in the -R device (Table 45–10a), the -R device initiates G.994.1 startup procedures by transmitting R-TONES-REQ. NOTE—"-R" device initiated start-up is outside the scope of this standard. {delete Note} At the conclusion of G.994.1 startup, the "-R" device shall begin G.994.1 transactions by transmitting an MR message. If the G.994.1 session was initiated by the PMA/PMD link control bit (signifying that the link is to be brought up) in either the "-O" or "-R" device shall respond with an MS message specifying the configured mode of operation. REQ-CLR so that a capabilities is performed. Following the final message of the capabilities is performed. Following the final message specifying the configured mode of operation.	register operations are initiated (Table 45–59b), or link partner aggregation register operations are initiated (Table 45–59c), the -O device initiates G.994.1 startup procedures	C/ 61 SC 61.4.8.3 P399 L45 # <u>527</u>
At the conclusion of G.994.1 startup, the "-R" device shall begin G.994.1 transactions by transmitting an MR message. If the G.994.1 session was initiated by the PMA/PMD link control bit (signifying that the link is to be brought up) in either the "-O" or "-R" device, then the "-O" device shall respond with an MS message specifying the configured mode of operation. However, if the PMA/PMD type selection bits in the "-O" device are set to the value 0011 or 0100, and a capabilities exchange (i.e., an ACK(1)), the "-R" device once again sends an MR message. The "-O" device shall respond with an MS message specifying the configured mode of operation.	initiates G.994.1 startup procedures by transmitting R-TONES-REQ.	Comment Type TR Comment Status D depending on the g.994.1 message the -o device received before, the -o device has to
If the G.994.1 session was initiated by the PMA/PMD link control bit (signifying that the link is to be brought up) in either the "-O" or "-R" device, then the "-O" device shall respond with an MS message specifying the configured mode of operation. However, if the PMA/PMD type selection bits in the "-O" device are set to the value 0011 or 0100, and a capabilities exchange has not previously taken place, the "-O" device shall instead respond with an REQ-CLR so that a capabilities is performed. Following the final message of the capabilities exchange (i.e., an ACK(1)), the "-R" device once again sends an MR message. The "-O" device shall respond with an MS message specifying the configured mode of operation.	At the conclusion of G.994.1 startup, the "-R" device shall begin G.994.1 transactions by	SuggestedRemedy change the part of the sentence in the following way:', then the -O device shall respond
	is to be brought up) in either the "-O" or "-R" device, then the "-O" device shall respond with an MS message specifying the configured mode of operation. However, if the PMA/PMD type selection bits in the "-O" device are set to the value 0011 or 0100, and a capabilities exchange has not previously taken place, the "-O" device shall instead respond with an REQ-CLR so that a capabilities is performed. Following the final message of the capabilities exchange (i.e., an ACK(1)), the "-R" device once again sends an MR message. The "-O" device shall respond with an MS message specifying the configured	
Proposed Response Response Status O	Proposed Response Response Status O	

C/ 61	SC 61.4.8.3	P 399	L 48	# 528
Schneide	erheinze, Burkart	Infineon Tech	nologies	

Schneiderheinze, Burkart

Comment Type TR Comment Status D

Cleardown condition not correct. Aggregation has 3 different stage, and each link can be in a different stage. Between the stages there might be some breaks where no actions takes place on this link (none of the 3 mentioned bits set). In this breaks no clear down process shall be started

SuggestedRemedy

Remove entire sentence, see different comment which is asking for dedicated clear down bit in register 45.1.30 (chapter 45.2.11)

Proposed Response Response Status 0

C/ 61	SC 61.6	P 400	L17	# 209
Beck, Micha	ael	Alcatel Bell nv		

Comment Type TR Comment Status D

61.6, "MDI specifications", states that "local regulations may dictate interface characteristics in addition to or in place of some or all of these requirements".

61.8. "Environmental specifications", states that "the specific requirements of the network operator or the local authority having jurisdiction shall prevail in all cases".

These statements override the specific requirements of Clause 62 and Clause 63, and may impact the performance of EFM Copper systems. There is no text to warn the implementer/user that this may result in non-compliance with this standard.

SuggestedRemedy

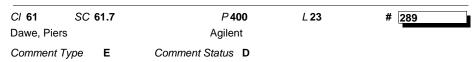
Add the following informative text to 61.7 "System considerations"

NOTE---It is recognized that an EFM Copper system may have to comply with additional requirements and/or restrictions outside the scope of this standard (see 61.6 and 61.8 for examples) in order to be allowed to be connected to a public infrastructure in a certain geographic area or regulatory environment. These additional requirements and/or restrictions may prohibit operation under certain profiles, or degrade the performance of the system when working under certain profiles. If this is the case, the system is not compliant with this standard, as compliant systems support all profiles (see Annex 62A for 10PASS-TS and Annex 63A for 2BASE-TL) and meet all performance guidelines (see Annex 62B for 10PASS-TS and Annex 63B for 2BASE-TL).

A compliant CPE-side system cannot distinguish a CO-side system designed to operate under a limited set of profiles from a fully compliant CO-side system, as the selection of profiles is under control of the CO-side. A CPE-side system designed to operate under a limited set of profiles cannot be guaranteed to correctly interoperate with compliant COside systems.

It is recommended that vendors of systems that support a limited set of profiles provide PICS forms to indicate which profiles are supported, in order to allow users to assess the impact on interoperability.

Proposed Response Response Status **O**



only in the wrong place

SuggestedRemedy

Change 'Both EFM Copper port types are only defined for full duplex operation,' to 'Both EFM Copper port types are defined for full duplex operation only,'.

Proposed Response Response Status 0

P802.3ah Draft 3.1 Comments C/ 61 SC Figure 61-14 P 381 L 39 # 128 C/ 61 SC Figure 61-18 P 390 L34 # 467 Brown, Benjamin Independent Schneiderheinze, Burkart Infineon Technologies Comment Type TR Comment Status D Comment Type T Comment Status D Wrong symbol add 'Reset'-Transition into state 'INIT' SuggestedRemedy SuggestedRemedv After the FCS is inserted, the following symbol should be "Z" not "S", as is described by the add 'Reset'-Transition into state 'INIT' hex value pointing to this symbol Proposed Response Response Status **O** Proposed Response Response Status O C/ 61 SC Figure 61-18 P 390 L43 # 469 P 384 C/ 61 SC Figure 61-15 L9 # 129 Schneiderheinze, Burkart Infineon Technologies Brown, Benjamin Independent E Comment Status D Comment Type Comment Type TR Comment Status D In state END DATA: k:=k+1 needs to be done because of the transmission of C(k). The The base number "16" isn't showing up clearly - only the "1" is showing up incrementation of k for each octet was already done in PULL PAF DATA2. It does functionally not matter, but it would be better understandable if k:=k+1 was done in SuggestedRemedy END FRAGMENT. Either change the width of the box so the "16" shows up or drop the subscript base entirely, SuggestedRemedv perhaps adding a note at the bottom of the figure stating that all octets other than Dx are in hexadecimal notation. move 'k:=k+1' from END_DATA to END_FRAGMENT Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 61 SC Figure 61-18 P 390 L 29 # 131 C/ 61 L45SC Figure 61-18 P 390 # 468 Brown, Benjamin Independent Schneiderheinze, Burkart Infineon Technologies Comment Status D Comment Type TR Comment Type Т Comment Status D I think you made this change at my suggestion back in January but I'm not sure I like the As transmitZ() is defined it sends Y when k=1. ramifications. Whenever TC link state changes to FALSE, the 64/65-octet boundary Therefore UPDATE K and IDLE need to be exchanged (k:=k+1 before transmitZ()). changes since the variable k is reset to 0 immediately upon this occurrence. SuggestedRemedy SuggestedRemedy Change order of UPDATE K and IDLE. Remove the k<=0 assignment from state INIT Proposed Response Response Status 0 Create a parallel state to INIT that keeps the k<=0 assignment. Add a global input to this state for "BEGIN" then copy the definition of BEGIN from 61.3.3.5.1 to 61.3.3.7.1. Modify state names as desired. BEGIN wants to assign a value to k. TC link state changing to FALSE should not change the value for k. Proposed Response Response Status O

C/61 SC Figur		P 393	L11	# 473	C/ 61	-	ıre 61-19	P 393	L 34	# 134
Schneiderheinze, Burka	art	Infineon Tech	nologies		Brown, Be	enjamin		Independent		
Comment Type T	Comme	nt Status D			Comment	t Type TF	R Comm	ent Status D		
In state OUT_OF_F remote_TC_out_of			ols shall reset		or ter	minated acro	oss the PAF. In	fact, if you follow th	e state diagram	
SuggestedRemedy "In state OUT_OF_ IF (B=D1) THEN re				e_TC_out_of_sync to:	END_	_OF_FRAGN				d together across the
ELSE IF (B=50) or	(B=0) THEN rei	mote_TC_out_of_	sync <= FALSE	1				y in a 64/65 octet co		
Proposed Response	Respons	e Status O			code	word. When	the first code w		"C" character is	t ends in the following s corrupted so that the riolation then spins
C/ 61 SC Figur Brown, Benjamin	e 61-19	P 393 Independent	L 34	# 133	throug DECO The F	gh the remai DDE2, it see PAF would se	nder of the first s a valid "C" cha se the end of th	code word while in aracter and so trans	state CODING_ sitions to state E	VIOLATION. In state ND_OF_FRAGMENT. d of the first packet but
Comment Type TR	Comme	nt Status D			RX_E	ERR would n	ot be set.			
Decoded C values	other than 0-63	are all treated the	e same. There is	no reason to decode	Suggeste					
to specific values for	or Z, Y, or S.							DUNT_CODING_VI		n a brand new state
SuggestedRemedy					Detwe				OL.	
On page 391, remo "decode(octet B)"	ve the second	to last and third to	last sentences i	n the definition for	packe	et? When lea	ving state DEC		a valid "C" chara	icter implying EOP, go
Proposed Response	Respons	e Status O			some	where to rea	d the remainde	r of the packet but o	don't give that p	acket to the PAF.
					By the way - why doesn't this state diagram set RxEOP anywhere?					
					Proposed	l Response	Respon	se Status O		
					C/ 61	SC Figu	ıre 61-19	P 393	L 37	# 132
					Brown, Be	enjamin		Independent		
					Comment	t Type TF	R Comm	ent Status D		
					by the	e state diagra	am in Figure 61		ram is always ru	s function is preformed inning in parallel with operate.
					Suggeste Remo	,	tion call from thi	is state and remove	e its definition fro	om page 391.
					Proposed	l Response	Respon	se Status O		

Cl 61 SC Figure 61-19 P 393 L 4 # 472 Schneiderheinze, Burkart Infineon Technologies	C/ 61 SC Figure 61-3 P 359 L 23 # 582 Cravens, George Mindspeed
Comment Type T Comment Status D RxErr is set in states START_FRAGMENT, LOSS_OF-SYNC1 and CHECK_SYNC2. Setting it to FALSE in START_FRAGMENT and setting it to TRUE in LOSS_OF_SYNC1 is correct, but it has also to be set to TRUE for every coding violation (see 61.2.2.7.1.) and for every CRC error, not just in state CHECK_SYNC2. Additionally, it has to be renamed to Rx_Err.	Comment TypeTComment StatusDThe TC is mentioned in the paragraph preceeding the figure, but is not shown in the figure.Add a TC block above each of the PME blocks in the diagram, with connections to the MDC & MDIO lines labeled "Address 0.6".
SuggestedRemedy Rename to Rx_Err and set/reset whereever appropriate, or remove this variable completely from the state diagram	Also, since Clause 45 shows address x.1 going to the PMA/PMD, the PME blocks might want to add "(PMA/PMD)". {Do not delete the PME label, since it helps the reader follow the discussion that follows in this clause.}
Proposed Response Response Status O	SuggestedRemedy Add a TC block above each of the PME blocks in the diagram, with connections to the MDC & MDIO lines labeled "Address 0.6".
C/ 61 SC Figure 61-19 P 393 L 43 # 135 Brown, Benjamin Independent Independent Independent Comment Type TR Comment Status D Clean up state END_OF_FRAGMENT Comment Status D	 Also, since Clause 45 shows address x.1 going to the PMA/PMD, the PME blocks might want to add "(PMA/PMD)". {Do not delete the PME label, since it helps the reader follow the discussion that follows in this clause.} Proposed Response Response Status O
SuggestedRemedy Replace contents of state END_OF_FRAGMENT with the following: remote_TC_out_of_sync <= FALSE B <= receiveOctet() if k=kmax then RxEop <= TRUE sendOctetToPAF(B) k <= k+1	Cl 61 SC Figure 61-8 P 367 L 18 # 404 Law, David 3Com 3Com 404 Comment Type TR Comment Status D The signal RX_DV is output by the PHY an therefore must be driven by one of the PHY state machines - that is it has to be an output and appear as an assignment within some of the states. The only place that RX_DV seems to appear however is as an input to this state
Proposed Response Response Status O	diagram which doesn't seem correct. <i>SuggestedRemedy</i> Add the control of RX_DV to one of the state diagrams for this PHY. <i>Proposed Response Response Status</i> O

Ci 61 SC Central P316 L # 99225 Grow, Robert Intel Broadcom Broadcom Corrent Type TR Comment Status R D3.0 4558 The management functions of the EFM copper are not specified correctly. Many functions are defined in terms of the Clause 30 MB, Enternet SNMP functions are defined in terms of the Clause 30 MB, enter the SNMP functions are defined in terms of the Clause 30 MB, enter the SNMP functions are specific functions and state diagrams. OMA points to the Clause 30 MB, ent internate functions or table 61-20 included as it appears to be identical to Table 61-20 is more specific framedy Rewrite the clause and state diagrams. OMA points to the Clause 30 MB, not internate functions or table 61-20 is more specific frame the clause and state diagrams. OMA points to the Clause 30 MB, not internate functions or table 61-20 is more specific frame the clause and state diagrams. OMA points to the Clause 30 MB, not internate functions or table 61-20 is more specific frame the clause and state diagrams. OMA points to the Clause 30 MB, not internate functions or table 61-20 is more specific frame the clause and state diagrams. OMA points to the Clause 30 MB, not internate functions or table 61-20 is more specific frame thances for the clause and SMM functions are defined in clause 30 MB, not internate functions or table 61-20 is more specific frame than the clause and state diagrams. OMA points to the Clause 30 MB, not internate function are more diagrams. To functional parentation function internate points for the Clause 30 MB, not internate function are more diagrams. Common functional parentation function internate points for the comparison or induce as a speciclause 30 manead objecles. Cl 61 A SC 61A.2					P802.3ah D	raft 3.1 Comme	nts			
The management functions of the EFM copper are not specified correctly. Many functions are and efficient in terms of the Clause 30 MB. Ethernet SMMP functions are also traditionally defined in terms of the Clause 30 MB. Ethernet SMMP functions are also traditionally defined in terms of the Clause 30 MB. Ethernet SMMP functions are also traditionally defined in terms of the Clause 30 mB consistent with 802.3 specification approaches. State diagrams reterence register definitions, where relevant. Clause 30 references of clause 10. Why is Table 61-20 included as it appears to be identical to Table 10/G.99.4.1 SuggestedRemedy Revire the clause and supporting clauses consistent with 802.3 specification approaches. State diagrams reterence register definitions, where relevant. Clause 30 references of clause 10. Why is Table 61-20 included as it appears to be identical to Table 10/G.99.4.1 Proposed Response Response Status U RELECT. The Copper Sub Task Force has deliberately chosen to divide registers into two categories of objects controls the macroscopic behavior of the EFM Copper devices in terms of discrete well-defined and terms of the rectew well-defined and terms of the macroscopic behavior of the EFM Copper devices in terms of discrete well-defined and terms of the clause 45 MDD clause 45 AmDD clause 45 amd Clause 45 MDD clause 45 MDC clau	-			L	# 99325	-	CTable 61-		L	# 99326
SuggestedRemedy Rewrite the clause and supporting clauses consistent with 802.3 specification approaches. Its and state diagrams. OAM points to the Clause 30 MIE, not internal functions of Clause 50. Response Status U REJECT. The Copper Sub Task Force has deliberately chosen to divide registers into two categories. It is carefung is expanded to be and supporting clause as a low as level of detailed control not ordinarily needed for normal operation. The registers for these objects can be read/writen by means of the Clause 45 MDNP and and these these objects can be read/writen by means of the Clause 45 MDNP and and these these objects can be read/writen by means of the Clause 45 MDNP and and the controlled by means of dedicately of objects controls the macroscopic behavior of the EFM Copper devices in terms of discrete, well-defined and testable profiles. These profiles are defined in Annex 624 (10FAS) FS) and Annex 632 (2BASE TL) and can be controlled by means of dedicated Clause 30 managed objects. Ci 61A SC 61A.2 P590 L40 # §33 Comment Type E Comment Type E Comment Status D Inflineon Technologies Comment Type E Comment Type E Comment Status D Inflineon Technologies Comment Type E Comment Status D Inflineon Technologies Comment Type T Comment Status D In	The man are not d OAM fun	, hagement functi lefined in Claus hctions are defir	ons of the EFM copper are n e 30, and consequently will r ned in terms of the Clause 30	not be accessab MIB. Ethernet	rectly. Many functions le through OAM, as SNMP functions are	Why is Tabl	e 61-20 incl edy	luded as it appears to be ider	ntical to Table 10	D3.0 #7)/G.994.1
The clause and supporting clauses consistent with 802.3 specification approaches. State diagrams (reference register distinus, where relevants) register bits and state diagrams. (AM points to the Clause 30 MIB, not internal functions of Clause 51.1 something is expected to be in an SNMP MIB, it should have the capability specified in Clause 30. <i>Proposed Response Response Status</i> U <i>RELECT</i> . The Copper Sub Task Force has deliberately chosen to divide registers into two categories. <i>A first category of objects has either only internal significance or allows</i> a level of detailed control not chronally needed for normal operation. The registers for these objects can be read/written by means of the Clause 45 MDIO or an equivalent interface, if implemented. It's not expected that these parameters would be set via an SNMP agent. A second category of objects controls the macroscopic behavior of the EFM Copper devices in terms of discrete, well-defined and testable profiles. These profiles are defined run testable profiles. These profiles are defined and testable profiles. These profiles are defined and testable profiles. These profiles require manageability regardless of the way in which ADMI is implemented. <i>CI</i> 61 SC Table 61-12 <i>P</i> 383 <i>L</i> 36 <i>Comment Type E Comment Status</i> D Inserved Response Mindspeed <i>Comment Type E Comment Status</i> D Add a column in the table with each character's function name: <i>SuggestedRemody X</i> Idle <td>••</td> <td></td> <td></td> <td></td> <td></td> <td>Proposed Respo</td> <td>onse</td> <td>Response Status U</td> <td></td> <td></td>	••					Proposed Respo	onse	Response Status U		
of Clause 61. If something is expected to be in an SNMP MIB, it should have the capability specified in clause 30. C 61 A SC 61A.2 P 590 L 30 # 535 Proposed Response Response Status U Schneiderheinze, Burkart Infineon Technologies Proposed Response Value Task Force has deliberately chosen to divide registers into two categories. A first category of objects has either only internal significance or allows a level of detailed control not ordinarily needed for normal operation. The registers for these objects can be read/writin by means of the Clause 45 MID Or an equivalent interface, if implemented. It's not expected that these parameters would be set via an SNMP agent. C 61A SC 61A.2 P 590 L 30 # 533 A second category of objects controls the macroscopic behavior of the EFM Copper devices in terms of discrete, well-defined at testable profiles. These profiles are defined in Annex 62A (10P ASS-TS) and Annex 53A (2BASE-TL) and can be controlled by means of dedicated Clause 30 maneyed objects may appear in Clause 45 and Clause 30. These objects require manageability regardless of the way in which OAM is implemented. In some cases, equivalent managed bijects. P 383 L 36 # 587 Add a column in the table for the Character's function name: Z idle C 61A SC 61A.2 P 590 L 46 # 426 Suggested/Remedy Mindspeed Comment Type E Comment Status D Iast 3 actions in PME aggregation phase (MR, MS, ACK) are optional Suggested/Remedy C 61A SC 61A.2 P 590 L 46 # 426	Rewrite t State dia	the clause and agrams reference	e register definitions, where	relevant. Claus	e 30 references	The table is				cific than the
REJECT. The Copper Sub Task Force has deliberately chosen to divide registers into two categories. A first category of objects has either only internal significance or allows a level of detailed control not ordinarily needed for normal operation. The registers for these objects and SMM appent. SuggestedRemedy A second category of objects controls the macroscopic behavior of the EFM Copper devices in terms of discrete, well-defined and testable profiles. These profiles are defined in Annex K24 (10PASSET) and Annex K34 (2BASETL) and can be controlled by means of dedicated Clause 30 managed objects. No In some cases, equivalent manageability regardless of the way in which OAM is implemented. If is C Table 61-12 P 383 L 36 # 587 Cravens, George Mindspeed Mindspeed SuggestedRemedy mark them as optional Cravens, George Mindspeed SuggestedRemedy mark them as optional SuggestedRemedy Add a column in the table with each character function name: SuggestedRemedy Mindspeed Comment Type E Comment Status D Itel Comment Status D Add a column in the table with each character function name: Zidle Kidle, Out of Sync P 590 L 46 # 426 Darmet Type T Comment Type T Comment Status D Itel Itel Comment Type <	of Clause	e 61. If someth				-	-			# 535
A first category of objects has either only internal significance or allows a level of detailed control not ordinarily needed for normal operation. The registers for these objects can be read/written by means of the Clause 45 MDIO or an equivalent interface, if implemented. It's not expected that these parameters would be set with an SNMP agent. SuggestedRemedy A second category of objects controls the macroscopic behavior of the EFM Copper devices in terms of discrete, well-defined and testable profiles. These profiles are defined in Annex K2A (10PASS-TE) and Annex 65A (2BASE-TL) and can be controlled by means of dedicated Clause 30 managed objects. In some cases, equivalent managed objects may appear in Clause 45 and Clause 30. These objects require manageability regardless of the way in which OAM is implemented. C/ 61A SC 61A.2 P 590 L 40 # 533 Cl 61 SC Table 61-12 P 383 L 36 # 587 Cravens, George Mindspeed Comment Type E Comment Status D Add a column in the table for the Character function name: Z Idle C 61A SC 61A.2 P 590 L 46 # 426 SuggestedRemedy Add a column in the table with each character's function name: Z Idle SC 61A.2 P 590 L 46 # 426 Barry, O'Mahony Intel Comment Type T Comment Status D Iabel 'MR (contains already correct hs values)' is incorrect, as the MR message contains no	REJECT			to divide version			Е	Comment Status D		
devices in terms of discrete, well-defined and testable profiles. These profiles are defined in Annex 62A (10PASS-TS) and Annex 63A (2BASE-TL) and can be controlled by means of dedicated Clause 30 managed objects. In some cases, equivalent managed objects. In some cases, equivalent managed objects may appear in Clause 45 and Clause 30. These objects require manageability regardless of the way in which OAM is implemented. Schneiderheinze, Burkart Infineon Technologies C/l 61 SC Table 61-12 P 383 L 36 # 587 Carvens, George Mindspeed Mindspeed Comment Type E Comment Status D Comment Type E Comment Status D E Comment Status D Add a column in the table for the Character function name: Z Idle C/l 61 A SC 61A.2 P 590 L 46 # 426 Barry, O'Mahony Intel Comment Type T Comment Status D Iabel "MR (contains already correct hs values)" is incorrect, as the MR message contains no parameters. SuggestedRemedy Nove the "(contains already correct hs values)" notation to the subsequent MS message. Proposed Response Response Status O SuggestedRemedy Move the "(contains already correct hs values)" notation to the subsequent MS message. Proposed Response Response Status O	control n read/writ	ot ordinarily ne ten by means c	eded for normal operation. The first operation of the Clause 45 MDIO or an effective operation of the terms of t	ne registers for t equivalent inter	these objects can be face, if implemented.	replace PMI	with PME	Response Status O		
In some cases, equivalent managed objects may appear in Clause 45 and Clause 30. These objects require manageability regardless of the way in which OAM is implemented. Cl 61 SC Table 61-12 P 383 L 36 # 587 Cravens, George Mindspeed Comment Type E Comment Status D Add a column in the table for the Character function name. SuggestedRemedy Add a column in the table with each character's function name: Z Idle Ck Data Y Idle, Out of Sync R esserved Proposed Response Response Status O Proposed Response Response Status O Also, in the two "timeout" notes on right side, change "R-TONES" to "R-TONES-REQ".	devices i in Annex	in terms of disc 62A (10PASS	rete, well-defined and testabl TS) and Annex 63A (2BASE	e profiles. Thes	e profiles are defined					# <u>533</u>
Cl 61 SC Table 61-12 P383 L36 # 587 Cravens, George Mindspeed Comment Type E Comment Status D Add a column in the table for the Character function name. C/ 61A SC 61A.2 P 590 L46 # 426 SuggestedRemedy Add a column in the table with each character's function name: C/ 61A SC 61A.2 P 590 L46 # 426 Barry, O'Mahony Intel Intel Comment Status D Intel Intel Z Idle Ck Data Control of Sync R Reserved Move the "(contains already correct hs values)" is incorrect, as the MR message contains no parameters. SuggestedRemedy Proposed Response Response Status O Also, in the two "timeout" notes on right side, change "R-TONES" to "R-TONES-REQ".	In some These of	cases, equivale bjects require m	ent managed objects may app nanageability regardless of th	e way in which	OAM is implemented.	last 3 action	s in PME a		ACK) are optiona	al
Add a column in the table for the Character function name. C/ 61A SC 61A.2 P 590 L 46 # 426 SuggestedRemedy Barry, O'Mahony Intel Add a column in the table with each character's function name: C/ 61A SC 61A.2 P 590 L 46 # 426 Z Idle Barry, O'Mahony Intel Ck Data Comment Type T Comment Status D Iabel "MR (contains already correct hs values)" is incorrect, as the MR message contains no parameters. Y Idle, Out of Sync R Reserved SuggestedRemedy Proposed Response Response Status O Also, in the two "timeout" notes on right side, change "R-TONES" to "R-TONES-REQ".	Cravens, Ge	orge	Mindspeed	L 36	# <u>587</u>		•	Response Status O		
Z Idle Iabel "MR (contains already correct hs values)" is incorrect, as the MR message contains no parameters. Y Idle, Out of Sync SuggestedRemedy R Reserved Move the "(contains already correct hs values)" notation to the subsequent MS message. Proposed Response Response Status O Also, in the two "timeout" notes on right side, change "R-TONES" to "R-TONES-REQ".	Add a co	, plumn in the tab		name.		-	-		L 46	# 426
Y Idle, Out of Sync SuggestedRemedy R Reserved Move the "(contains already correct hs values)" notation to the subsequent MS message. Proposed Response Response Status O Also, in the two "timeout" notes on right side, change "R-TONES" to "R-TONES-REQ".	Z Idle		le with each character's funct	tion name:		label "MR (c	ontains alre		correct, as the N	IR message contains
Also, in the two "timeout" notes on right side, change "R-TONES" to "R-TONES-REQ".	Y Idle, (R Rese	Out of Sync erved				00	,	eady correct hs values)" nota	tion to the subse	equent MS message.
Proposed Response Response Status O	Proposed Re	esponse	Response Status O			Also, in the	two "timeou	it" notes on right side, change	e "R-TONES" to	"R-TONES-REQ".
						Proposed Respo	onse	Response Status 0		

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

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D3.0 #799

		F 002.3an	Drait 5.1 Comments
C/ 61A SC 61A.2 Schneiderheinze, Burkart	P 590 L 47 Infineon Technologies	# 534	C/ 61A SC Figure 61A-3 P L # Schneiderheinze, Burkart Infineon Technologies
Comment Type E MR never contains any	Comment Status D y parameter		Comment Type E Comment Status D PMI not replaced by PME 5 times in figure 61A-3
SuggestedRemedy remove 'appendix' of M	/IR in the first MR message in the Line Startu	р	SuggestedRemedy replace PMI by PME
Proposed Response	Response Status O		Proposed Response Response Status O
Cl 61A SC 61A.2 Schneiderheinze, Burkart	P 591 L 5 Infineon Technologies	# 474	C/ 61B SC P L # Schneiderheinze, Burkart Infineon Technologies
Comment Type E typos: aplpha and regs	Comment Status D		Comment Type E Comment Status D PMI not replaced by PME about 50 times in Annex 61B
SuggestedRemedy fix them			SuggestedRemedy replace PMI by PME
Proposed Response	Response Status O		Proposed Response Response Status O
Cl 61A SC 61A.2 Beck, Michael	P 591 L 5 Alcatel Bell nv	# 204	C/ 61B SC 61B.2 P 596 L 15 # 414 Barry, O'Mahony Intel
<i>Comment Type</i> E Typo: aplpha	Comment Status D		Comment Type T Comment Status D Table 61B-1 is a duplicate of Table 10/G.994.1.
SuggestedRemedy Replace "aplpha" with	"alpha".		This comment is submitted on behalf of ITU-T Q4/15. Q4/15 in their liaison requests that we reference the table in G.994.1 instead of reproducing it.
Proposed Response	Response Status O		SuggestedRemedy Delete Table 61B-1; insert reference to Table 10/G.994.1 in 61.4.5. Move footnote b from Table 61B-1 to 61.4.5 (this footnote places additional detail on the operation of the "Silent
Cl 61ASC 61A.3Schneiderheinze, Burkart	P 591 L 14 Infineon Technologies	# 536	period" bit, above what is specified in G.994.1. Proposed Response Response Status O
Comment Type T Exampe encapsulation	Comment Status D n still up to date?? (i.e. transmission of Y Cod	eword?)	
SuggestedRemedy ? Discuss it on the floo	pr		
Proposed Response	Response Status O		

Back, Michael Alcatel Bell nv Comment Type TR Comment Status D With the recent adoption by ITU-T Q4/15 of SPar(1) codepoints for aggregation discovery the need for EFM-specific SPar(1) codepoints has disappeared. The commenter has proposed to add NPar(2) codepoints to the handshake trees of G.993.1 and G.991.2 to select the TPS-TC developed by IEEE 802.3ah. SuggestedRemedy Assuming that the codepoints proposed in MC-029.doc were adopted by ITU-T Q4/15, replace the 10PASS-TS and 2BASE-TL handshake trees by references to the following codepoints: - G.994.1 SPar(1) codepoints for aggregation discovery - Existing G.994.1 SPar(1) codepoints for G.991.2 and G.993.1 in combination with the n "EFM-TC" NPar(2) to select 2BASE-TL and 10PASS-TS, respectively. Proposed Response Response Status O	SuggestedRemedy move 2 2BASE-TL code points to SPAR section and begin numbering of SPARs with octe #1 Proposed Response Response Status 0
 the need for EFM-specific SPar(1) codepoints has disappeared. The commenter has proposed to add NPar(2) codepoints to the handshake trees of G.993.1 and G.991.2 to select the TPS-TC developed by IEEE 802.3ah. SuggestedRemedy Assuming that the codepoints proposed in MC-029.doc were adopted by ITU-T Q4/15, replace the 10PASS-TS and 2BASE-TL handshake trees by references to the following codepoints: G.994.1 SPar(1) codepoints for aggregation discovery Existing G.994.1 SPar(1) codepoints for G.991.2 and G.993.1 in combination with the n "EFM-TC" NPar(2) to select 2BASE-TL and 10PASS-TS, respectively. 	SuggestedRemedy move 2 2BASE-TL code points to SPAR section and begin numbering of SPARs with octe #1 Proposed Response Response Status 0
Assuming that the codepoints proposed in MC-029.doc were adopted by ITU-T Q4/15, replace the 10PASS-TS and 2BASE-TL handshake trees by references to the following codepoints: - G.994.1 SPar(1) codepoints for aggregation discovery - Existing G.994.1 SPar(1) codepoints for G.991.2 and G.993.1 in combination with the n "EFM-TC" NPar(2) to select 2BASE-TL and 10PASS-TS, respectively.	Proposed Response Response Status O
- Existing G.994.1 SPar(1) codepoints for G.991.2 and G.993.1 in combination with the n "EFM-TC" NPar(2) to select 2BASE-TL and 10PASS-TS, respectively.	
	C/ 61B SC 61B.3.1 P 600 L 12 # 417 new Barry, O'Mahony Intel
	Comment Type T Comment Status D This comment is submitted on behalf of ITU-T Q4/15.
C/ 61BSC 61B.3.1P 597L 37# 537Schneiderheinze, BurkartInfineon Technologies	Table 61B-6 in the 2BASE-TL tree defines a "PMI Aggregation Discovery" and "PMI Aggregation" bits. In their liaison, Q4/15 notes they have recently defined similar functionality beneath a Level 1 SPar "bonding" bit in Table 9.0.2.
Comment Type E Comment Status D correct data rate is 5696 kb/s not 5696 b/s	Table 61B-93 defines a similar bit in the 10PASS-TS tree.
SuggestedRemedy change accordingly	Remove "PMI Aggregation Discovery" and "PMI Aggregation" bits from Tables 61B-6 and 61B-93. Remove suclauses 61B.3.2.4, 61B.3.2.5, 61B.3.2.7, & 61B.3.2.8.
Proposed Response Response Status O	Update references in 61.4.8 as appropriate; specify that "TDIM bonding" bit shall be set to zero; move footnote (a) from Table 61B-6 to body of 61.4.8.
C/ 61B SC 61B.3.1 P 599 L 15 # 205 Beck, Michael Alcatel Bell nv Alca	Proposed Response Response Status O
Comment Type T Comment Status D Table 61B-4 seems to contain SPar codepoints, while the title says NPar. Which is it?	
SuggestedRemedy Change table title to "SPar(2) coding". Check octet numbering.	
Proposed Response Response Status O	

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C/ 61B SC 61B.3. Barry, O'Mahony	1 <i>P</i> 600 Intel	L 16	# 416	C/ 61B SC 61B.3.2.6 P 626 L 1 # 381 Beili, Edward Actelis Networks
Comment Type T This comment is sub Table 61B-6 in the 2 describes its function functionality in a Lev Table 61B-92 define SuggestedRemedy Remove definitions of	Comment Status D omitted on behalf of ITU-T Q4/15 BASE-TL tree defines a "variabl nality. In their liaison, Q4/15 not rel 1 SPar bit in Table 11.0.4. s a similar bit in the 10PASS-TS of the variable silent period bit fro 1.0.4/G.994.1 in 61.4.5	e silent period" b es they have rec tree.	cently defined similar	Comment Type TR Comment Status D The ITU-T Q4/SG15 has agreed to adopt Variable Silence parameters codepoints from 802.3ah into G.994.1 (G.Handshake) at the recent meeting. Since G.994.1 is referenced by the EFM standard, there's no point for duplicating these code points. Note also that zero value of Variable silence period, currently defined in D3.1, stands for 640sec, and any other value n=163 stands for n x 10 sec, while ITU-T defines (n+1) x 10 sec for n=063. SuggestedRemedy Remove 61B.3.2.6 and 61B.4.2.1 and Variable silence bit from tables B1B-6 and 61B-92. Reference G.994.1 instead. Modify 45.2.1.11.2 and 45.2.1.11.3 to use (n+1) x 10 sec for n=063 definition. Proposed Response Response Status
Proposed Response Cl 61B SC 61B.3. Beck, Michael Comment Type E	Alcatel Bell nv Comment Status D		# 206	Cl 61B SC 61B-2 P 597 L 1 # 415 Barry, O'Mahony Intel Comment Type T Comment Status D Table 61B-2 is a duplicate of Table 11.0.3/G.994.1.
could be confusing, a SuggestedRemedy	nds with a hyphen, which is part and it is definitely visually unplea n a non-breaking hyphen in this t <i>Response Status</i> O	isant.		This comment is submitted on behalf of ITU-T Q4/15. Q4/15 in their liaison requests that we reference the table in G.994.1 instead of reproducing it.SuggestedRemedy Delete Table 61B-2; insert reference to Table 11.0.3/G.994.1.Proposed ResponseResponse StatusO
parameters codepoir	Actelis Networ Comment Status D has agreed to adopt PMI aggre nts from 802.3ah into G.994.1 (0 994.1 is referenced by the EFM	gation discovery J.Handshake) at	the recent meeting in	Cl 61B SC Table 61B-7 P 600 L 34 # 603 Squire, Matt Hatteras Networks Hatteras Networks Comment Type TR Comment Status D We should align the upstream/downstream training parameters with the E-SHDSL training parameters. SuggestedRemedy Include analagous tables to E-SHDSL downstream training and upstream training
Remove relevant tab	oles from 61B.3.2 and 61B.4.2, F n tables 61B-6 and 61B-93. Refe <i>Response Status</i> 0			parameters NPAR(3) octets 2, 3, & 4. Proposed Response Response Status O

P802.3ah Draft 3.1	Comments
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C/ 62 SC 56.1.3	P 190	L 50	# 371	CI 62 S	SC 62.3.4.2	P 416	L11	# 588
Dawe, Piers	Agilent			Ed Eckert		Ikanos Comm	unication	
Comment Type E	Comment Status D			Comment Type	e T	Comment Status D		
In the next paragraph	ef editor with an informed remean we have an informative senter something in common with othe	nce telling us tha		environme on the valu	nt (short vs l ue of m which	imperative to getting the bes ong loops). In the current dra n determines the CE lenght.	aft, there is an u	nnecessary restriction
SuggestedRemedy					to do this for	VDSLZ.		
perhaps like: This P National Standard T1 uses passband But get the copper tra	insert something similar betwee MD is derived from the VDSL tr 424 and at time of writing, und ack to write/vet what they want the Response Status O	ransceiver specif ler discussion as	ied in American	as the enti extension value of m	the restrictive re text for su length is spe =20 is mand	e text be removed and the re- bclause 62.3.4.2, or (2) that t cified by the value of the para atory. Values of m=10 and m s is out of scope."	he sentence rea ameter m. In 10	ad: "The cyclic PASS-TS, the default
Proposed Response	Response Status 0			Proposed Res	oonse	Response Status O		
C/ 62 SC 62.1.2	P 410	L14	# 401	. <u> </u>				
Law, David	3Com				SC 62.3.4.9.4	-	L 33	# 429
Comment Type E	Comment Status D			Barry, O'Mahoi	ny	Intel		
2	scribed here the PHY objective	s or just the PM	A and PMD objectives.	Comment Type typo: "10P		Comment Status D		
	e PMA and PMD suggest that t SS-TS PMA and PMD'.	text ' for the 10	PASS-TS' be changed	SuggestedRen		S-O"		
Proposed Response	Response Status O			Proposed Res	ponse	Response Status 0		
C/ 62 SC 62.3.2 Barry, O'Mahony	P 414 Intel	L 32	# 428	CI 62B S Schneiderheinz	SC ze. Burkart	P Infineon Tech	L	# 478
Comment Type E Last sentence of para	<i>Comment Status</i> D agraph duplicates that in subcla	use 62.2.2.		Comment Type	e E	Comment Status D ME 4 times in Annex 62B		
SuggestedRemedy				SuggestedRen replace PN	•			
Delete sentence.				replace i n				

Р C/ 63 SC 1 # 476 C/ 63 SC 63.2.2.3 P439 L2 # 532 Schneiderheinze. Burkart Infineon Technologies Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D Comment Type T Comment Status D PMI not replaced by PME twice in clause 63 unclear how to map 7 bytes to 22 bit as defined in clause 22.2.4.3.1 SugaestedRemedv SugaestedRemedv replace PMI by PME ??Discuss it on the floor Proposed Response Response Status O Proposed Response Response Status 0 C/ 63 SC 63.1.1 P434 # 529 C/ 63 SC 63.3.2.4.2 P442 L8 L 26 # 379 Beili, Edward Schneiderheinze, Burkart Infineon Technologies Actelis Networks Comment Status D Comment Type TR Comment Status D Comment Type E register space not correct A 2BaseTL-R Phy is mandatory required to sustain up to 20mA of wetting (sealing) current. The original purpose for such high current was to support Metallic Loop Test (MLT), a SuggestedRemedy leftover from telephony days, which is not relevant in this case since 2BaseTL-O doesn't change address space to 3.60 to 3.73 have provision for the MLT. Most carriers today use less than 5mA of wetting current for corrosion prevention. In addition to that, 1000 Ohm resistive termination can be pretty bulky Proposed Response Response Status 0 (over 4W), requiring special protection. Note also that wetting current support may not be required in many cases, while demanding bigger isolation magnetic and complicated overvoltage protection from the Phy implementations. C/ 63 SC 63.1.1 P434 L 9 # 530 SuggestedRemedy Schneiderheinze. Burkart Infineon Technologies - Make wetting current an optional requirement for 2BaseTL (modifying also PICS proforma Comment Status D Comment Type E in subclause 63.4.4.2 lines 28 and 31). - Modify clauses 63.3.2.4.2 and 63.3.2.5.2 as follows: wrong address space "The 2BASE-TL-R shall be capable of sustaining 5 mA of wetting (sealing) current. The SuggestedRemedy maximum rate of change of the wetting current shall be no more than 5 mA per second. NOTE-The -R device cannot be guaranteed to operate correctly if more than 5 mA (tip to correct address space from 1.30-1.42 and 1.80 to 1.100 ring) is sourced." Proposed Response Response Status O Proposed Response Response Status **O** C/ 63 SC 63.2.2.3 P438 L 23 # 531 Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D mapping of Loop/Line attenuation missing SuggestedRemedy dd an entry with loop attenuation Octet #4

P802.3ah Draft 3.1 Comments

Proposed Response Response Status **O**

C/ 63 SC (Squire, Matt	63.3.2.4.2	P 442 Hatteras Netw	L 28 vorks	# 255	C/ 63B kimpe, marc	SC 63.b4	P 672 Adtran	L 7	# 391
Comment Type	TR C	omment Status D			Comment Ty	vpe T	Comment Status D		
The specificat here we're spe	tion of wetting of ecifing a DC re	current in 2BASE-TL diff esistance, where the G.9 e similar wording to G99	91.2 specs spec	ify more on potential	Commer margin s	nt applies to tal	ble 63-B2. To stay consistent ged from 6 to 5.	t with the objectiv	ves of 2Base-TL, the
uggestedRemed					SuggestedR	-			
Replace 63.3.	,				-		ment from 6 to 5 dB.		
		l be capable of drawing			Proposed Re	esponse	Response Status 0		
wetting curren optionally sup should produc maximum volt minimum volta of the STU-R current source	nt shall be no m oply power to su ce a nominal -4 tage of the pow age should be (or SRU-R) me e apply a poten	mote feeding circuit. The nore than 20 mA per sec upport wetting current. V 48 V potential measured ver source (if provided) s high enough to ensure a easured at ring with resp tital greater than -72 V b Id be zero or negative.	cond. The STU-C Vhen enabled, th at ring with resp should be limited a voltage of at lea bect to tip. In no	C (or SRU C) may his power source lect to tip. The l to -56.5 V. The ast -39 V at the inputs case shall the wetting	Comment Ty reference SuggestedRe	e specifiy 3 dif	P 670 Infineon Tech Comment Status D ferent test for 2048 kBit/s	L 35 nnologies	# <u>541</u>
Proposed Respon	•	esponse Status O			Proposed Re	• • • •	Response Status O		
	63A.4 Burkart	P 664 Infineon Tech	L 52 nologies	# 539	C/ 63B Schneiderhe	SC 63B.3 inze, Burkart	P 670 Infineon Tech	L 37 nnologies	# 542
Schneiderheinze,	Burkart E C			# 539	Schneiderhe Comment Ty	inze, Burkart	Infineon Tech Comment Status D		# 542
Schneiderheinze, Comment Type	Burkart E Co ef	Infineon Tech		# <u>539</u>	Schneiderhe Comment Ty tests are SuggestedRe	inze, Burkart /pe E e called B-1 - B	Infineon Tech Comment Status D		# 542
Schneiderheinze, Comment Type wrong cross re SuggestedRemed change to 45.	Burkart E Co ef 4y 2.1.39	Infineon Tech		# <u>539</u>	Schneiderhe Comment Ty tests are SuggestedRe	inze, Burkart ype E called B-1 - B emedy accordingly	Infineon Tech Comment Status D		# <mark>542</mark>
Schneiderheinze, Comment Type wrong cross re SuggestedRemed change to 45.2 Proposed Respon	Burkart E Ci ef ty 2.1.39 nse Re 63A.4	Infineon Tech	nologies	# <u>539</u> # <u>540</u>	Schneiderhe Comment Ty tests are SuggestedRe change a	inze, Burkart <i>type</i> E e called B-1 - B <i>emedy</i> accordingly <i>esponse</i> SC 64.1	Infineon Tech Comment Status D -4		# <u>542</u> # <u>561</u>
Schneiderheinze, Comment Type wrong cross re SuggestedRemed change to 45.2 Proposed Respon Cl 63A SC (Schneiderheinze, Comment Type	Burkart E Ca dy 2.1.39 ase Re 63A.4 Burkart E Ca	Infineon Tech comment Status D esponse Status O P665	nologies		Schneiderhe Comment Ty tests are SuggestedRe change a Proposed Re Cl 64	inze, Burkart vpe E e called B-1 - B emedy accordingly esponse SC 64.1 orge vpe E	Infineon Tech Comment Status D -4 Response Status O P 450	nnologies	
Schneiderheinze, Comment Type wrong cross re SuggestedRemed change to 45.2 Proposed Respon Cl 63A SC (Schneiderheinze, Comment Type 2BASE-TL PM SuggestedRemed	Burkart E Cref dy 2.1.39 nse Re 63A.4 Burkart E Cr MD register set	Infineon Tech comment Status D esponse Status O P665 Infineon Tech comment Status D tings were changed	nologies		Schneiderhe Comment Ty tests are SuggestedRe change a Proposed Re Cl 64 Cravens, Ge Comment Ty Missing	inze, Burkart ype E e called B-1 - B emedy accordingly esponse SC 64.1 orge ype E "s". emedy	Infineon Tech Comment Status D -4 Response Status O P 450 Mindspeed	nnologies L 21	
Schneiderheinze, Schneiderheinze, Comment Type wrong cross re SuggestedRemed change to 45.2 Proposed Respon Cl 63A SC (Schneiderheinze, Schneiderheinze, Schneiderheinze, SuggestedRemed	Burkart E Ca ref fy 2.1.39 nse Re 63A.4 Burkart E Ca MD register set fy 3A-2 according	Infineon Tech comment Status D esponse Status O P665 Infineon Tech comment Status D tings were changed	nologies		Schneiderhe Comment Ty tests are SuggestedRe change a Proposed Re Cl 64 Cravens, Ge Comment Ty Missing SuggestedRe Change	inze, Burkart <i>ype</i> E e called B-1 - B <i>emedy</i> accordingly <i>esponse</i> SC 64.1 orge <i>ype</i> E "s". <i>emedy</i> " the ONU th	Infineon Tech Comment Status D -4 Response Status O P 450 Mindspeed Comment Status D	nnologies L 21	

Cravens, George	1 P 450 Mindspeed	L 5	# 560	<i>Cl</i> 64 Kramer, Gler	SC 64.1.2	P 452 Teknovus	L 39	# 183
point).	Comment Status D Im IS as passive optical network (we "under consideration"	e're beyond the	"under consideration"	Comment Ty missing SuggestedR fix per co	, period at the e e <i>medy</i>	Comment Status D and of a sentence		
uggestedRemedy Delete the words	"under consideration"			Proposed Re	esponse	Response Status 0		
Proposed Response	Response Status O			C/ 64 Cravens, Ge	SC 64.1.4 orge	P 454 Mindspeed	L 5	# 565
 64 SC 64.1 ravens, George comment Type E Should say "provi 	Mindspeed	L 54	# 562	SuggestedR	, ly generated <i>A</i> e <i>medy</i>	Comment Status D Annex 4A should also be refere	enced for the ur	nderlying MAC sublay
uggestedRemedy Change provision roposed Response	n to provisioning Response Status O			To " se Proposed Re		e specified in 4.3.2 or 4A.3.2." Response Status O		
				C/ 64	SC 64.24	Р	L	# 411
		L 15	# 563	Grow, Rober	t	Intel		
ravens, George	Mindspeed	L15	# <u>563</u>	Comment Ty	pe E	Comment Status D	stead of error ra	
comment Type T Since this subclau implies normative makes the last se are no other "shal NOTE: This is rea	Mindspeed <i>Comment Status</i> D use is the overview, the word "shall" text and generally requires a corre entence of the sub-clause consistan lls" in this sub-clause). ally an editorial comment, but since	' probably isn't i sponding PICS t with the rest o	ntended since "shall" entry. This also i the sub-clause (there	Comment Ty D3.1 intr SuggestedR	rpe E oduces new te emedy "error rate" to	Comment Status D ext with misuse of error rate ins	stead of error ra	itio.
Comment Type T Since this subclaut implies normative makes the last se are no other "shal NOTE: This is reac classified it as "te SuggestedRemedy	Mindspeed <i>Comment Status</i> D use is the overview, the word "shall" text and generally requires a corre entence of the sub-clause consistan lls" in this sub-clause). ally an editorial comment, but since	' probably isn't i sponding PICS t with the rest o	ntended since "shall" entry. This also i the sub-clause (there	Comment Ty D3.1 intr SuggestedR Change	pe E oduces new te emedy "error rate" to esponse SC 64.2.1	Comment Status D ext with misuse of error rate ins	stead of error ra	atio. # <u>546</u>
Aravens, George Comment Type T Since this subclauding implies normative makes the last sea are no other "shall NOTE: This is reac classified it as "te classified it as "te classified it as "te Change the "shall The Multi-point M	Mindspeed <i>Comment Status</i> D use is the overview, the word "shall' a text and generally requires a corre- entence of the sub-clause consistan lls" in this sub-clause). Pally an editorial comment, but since echnical".	" probably isn't i sponding PICS t with the rest o	ntended since "shall" entry. This also f the sub-clause (there e magic word "shall", I	Comment Ty D3.1 intr SuggestedR Change Proposed Re Cl 64 Lynskey, Eric Comment Ty Multiplex instance	pe E oduces new te emedy "error rate" to esponse SC 64.2.1 pe E ting control sh	Comment Status D ext with misuse of error rate ins "error ratio" Response Status O P 455 UNH-IOL	L 21 mission Control	# 546
Cravens, George Comment Type T Since this subclau implies normative makes the last se are no other "shall NOTE: This is re- classified it as "te SuggestedRemedy Change the "shall	Mindspeed <i>Comment Status</i> D use is the overview, the word "shall' a text and generally requires a corre- entence of the sub-clause consistan lls" in this sub-clause). Hally an editorial comment, but since echnical". I be" to "is" as shown: IAC Control fucntionality is implement	" probably isn't i sponding PICS t with the rest o	ntended since "shall" entry. This also f the sub-clause (there e magic word "shall", I	Comment Ty D3.1 intr SuggestedR Change Proposed Re Cl 64 Lynskey, Eric Comment Ty Multiplex instance page 45 SuggestedR	pe E oduces new te emedy "error rate" to exponse SC 64.2.1 c pe E ting control sh s of this in the 7 line 32. emedy	Comment Status D ext with misuse of error rate ins "error ratio" Response Status O P455 UNH-IOL Comment Status D ould now be Multi-Point Trans	L 21 mission Control e 455 line 47, p	# 546 . There are 4 wage 457 line 18, and

SC 64.2.1

/ 64 SC 64.2.1	P 455	L 45	# 500	C/ 64 SC	64.2.1.1	P 456	L 49	# 500		
ravens, George	P 455 Mindspeed	L 4 3	# 566	Cravens, George	64.2.1.1	Mindspeed	L 49	# <u>568</u>		
<i>comment Type</i> E Con Move the leading "or" to the er	nment Status D nd of the previous item.			Comment Type timestamp dri	T ift error oc	Comment Status D curs when the gaurdThreshold	d is exceeded, r	not just "some		
uggestedRemedy				·		Also, insert cross-reference.				
Change item a) to " MA_DAT and item b) to "A protocol proc						d occurance of "some predefin "some predefined threshold"				
roposed Response Resp	oonse Status O			SuggestedRemed	•					
				Change " O	LT's and (ONU's clocks exceeds some p	redefined thres	hold."		
7 64 SC 64.2.1.1 rown, Benjamin	P 455 Independent	L 51	# 136	To " the OL	T's and the	e ONU's clocks exceeds gaur	dThreshold (see	e 64.2.2.1).		
	nment Status D						me predefined threshold", the cross-reference is I threshold" with gaurdThreshold.			
Extra word				Proposed Respon	nse	Response Status O				
uggestedRemedy Replace "field. is" with "field."										
•	oonse Status O			C/ 64 SC Cravens, George	64.2.2	P 457 Mindspeed	L 19	# 570		
				Comment Type	Е	Comment Status D				
64 SC 64.2.1.1	P 456	L 4	# 567	transmitPend	ing[n] sho	uld also be included.				
ravens, George	Mindspeed			SuggestedRemed						
	nment Status D			insert "transm	nitPending	[n]," after transmitEnable[n], ir	n line 19.			
The received timestamp value	is used to calculate the	e round trip time.		Proposed Respon	nse	Response Status 0				
Need to insert the word "times	tamp" between receive	d and value.								
uggestedRemedy				C/ 64 SC	64.2.2	P 457	L 3	# 569		
Change " it uses the received to " it uses the received time		"		Cravens, George		Mindspeed				
	ponse Status O			Comment Type The first parag	E graph say:	Comment Status D s the same thing four times. F	Rewrite as a sing	gle sentence.		
				SuggestedRemed Replace the fi		aph with:				
				clients to tran	smit to its	ti-point transmission control is associated MAC and subsequ smitENABLE signal at a time.				
				Proposed Respon		Response Status O				

Dena 2ab Draft 2.1 Commonto

SC 64.2.2

C/ 64 SC 64.2.2.2 P 459 L 48 # 572 Cravens, George Mindspeed Mindspee	C/ 64 SC 64.2.2.3 P 461 L 24 # 138 Brown, Benjamin Independent IndepIn100000000000
Comment Type T Comment Status D The "existance of a more accurate timebase" needs to be defined more clearly. As Figure 64-11 shows, the localTime variable is reloaded with the received timestamp value for every MAC Control Frame with a timestamp opcode.	Comment TypeTRComment StatusDThere are several instances where states are referred to. Here is one, referring to the TransmitFrame state. Page 462, line 2, refers to the forwarding state as does page 484, line 38. Are these real states? What state diagram (or anything else) does this refer to? I searched for these states and couldn't find them
The last sentence also seems to contradict Figure 64-11, since the value of the variable may change any time a MAC Control Frame with the timestamp opcode is received, so "highly undesirable and unspecified" seems like a rather nasty feature.	SuggestedRemedy Be more specific about what state diagram is being referenced or change the wording to not imply particular states. Proposed Response Response Status O
If changing the localTime variable can cause "highly undesirable and unspecified" behavior, then the ONU Control Parser state machine (figure 64-11) must be changed to prevent such an occurance.	C/ 64 SC 64.2.2.3 P461 L3 # 545
SuggestedRemedy Change the sentence starting on line 48 ("It is periodically") to the following: It is reloaded with the received timestamp value (from the OLT) by the Control Parser (see Figure 64-11).	Lynskey, Eric UNH-IOL <i>Comment Type</i> E <i>Comment Status</i> D The timestampDrift variable is defined as a boolean, so it cannot take on an actual value. The last sentence should be deleted.
Proposed Response Response Status O	SuggestedRemedy Remove the sentence "The timestampDrift value is represented in units of time_quanta."
C/ 64 SC 64.2.2.3 P 460 L 28 # 137 Brown, Benjamin Independent Independent	Proposed Response Response Status O
Comment Type E Comment Status D Variable list should be in alphabetical order	C/ 64 SC 64.2.2.4 P 461 L 40 # 139 Brown, Benjamin Independent IndepIn100000000000
SuggestedRemedy Move newRTT before nextTxTime Page 461, move transmitInProgress before transmitPending Proposed Response Response Status O	Comment Type E Comment Status D When referencing a subclause, you don't need to use the word "subclause" SuggestedRemedy Replace "in subclause 65.2.3" with "in 65.2.3" Proposed Response Response Status O

Page 112 of 130 C/ 64 SC 64.2.2.4

			P802.3a	n Draft 3.1 Comments				
C/ 64 SC 64.2.2.4 Kramer, Glen	P 461 Teknovus	L 46	# 184	C/ 64 SC 64. Lynskey, Eric	2.2.4	P 462 UNH-IOL	L 6	# 547
Comment Type E Missing word SuggestedRemedy	Comment Status D			given multi-point	e() function is MAC control		d be several MA	C Control frames along
insert word 'is' before 'u	used' Response Status O			Subclause 62.1 p	bage 455 line	on chooses one to pas 21 says that MAC cou t seem to be supporte	ntrol frames are	given priority over
Fioposeu Response	Response Status U			SuggestedRemedy				
Cl 64 SC 64.2.2.4 Brown, Benjamin Comment Type E	P 461 Independent Comment Status D	L 46	# 140	multiple interface Control interface Control interface	s are used to s be signaling . The result is	signal to a single bloo at the same time, the not specified for the	ck. If both MAC function will ret case where mul	urn an active MAC
missing word				Proposed Response	Rest	oonse Status O		
SuggestedRemedy Replace "formula used	" with "formula is used"							
Proposed Response	Response Status O			C/ 64 SC 64. Lynskey, Eric	2.2.7	<i>P</i> 467 UNH-IOL	<i>L</i> 1	# 548
C/ 64 SC 64.2.2.4	P 462	L15	# 185		nt against figu	nment Status D re 64-13. This state o wed is TRUE. It is po		smit any frame that it is inle TransmitFrame
Kramer, Glen	Teknovus			function calls have	ve been made	by any number of MA	AC	
Comment Type T inconsistent subscripts used. Here is 0-based a	Comment Status D for transmitPending variable. I array is used.	n figure 64-3, a	a 1-based array is	any way or deal w time. Specifically	with what hap /, there is also	pens if more than one o no SelectFrame fund	frame wants to	ram. The
SuggestedRemedy Change subscripts to 1	through N to be consistent wit	h Figure 64-3.	Make the same	variable will bet s	set to TRUE w		tate is entered.	in Figure 64-29. This Figure 64-22, the ONU smitFrame function
change in Figure 64-9.	J	J		calls during the d	liscovery proc	ess.	·	
Proposed Response	Response Status O							ecessarily prevent the cess. This could be a

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 113 of 130 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

significant problem by allowing an unregistered device to transmit client frames, and to

Some sort of priority function needs to be added to this diagram that will only allow the ONU to send MAC Control frames during the discovery process and that will prioritize MAC Control frames in the appropriate manner. Will try to work on some text before meeting.

allow the device to transmit frames greater than 64 bytes in length.

Response Status **O**

SuggestedRemedy

Proposed Response

C/ 64 SC 64.3	P 468	L8	# 574	C/ 64 SC 64.3.3	.3 P473	L 24	# 576
Cravens, George	Mindspeed	20	# 574	Cravens, George	Mindspeed	L 24	# 576
Comment Type E	Comment Status D not broadcast since they come the network"	from the ONUs.	# [125]	Comment Type T To allow wraparoun calculations must b Generically, "a is le "a < b =< a + ((may See 61.2.2.4, page SuggestedRemedy Change the last two	Comment Status D d of both a and b when compari e used. ss than b" is defined as	comparison is ma	ade")
Additional multicast MA	Comment Status D DLT may support multicast by ACs require additional LLIDs a as well as filtering and marking	nd filtering rules.	However, multicast	Proposed Response Cl 64 SC 64.3.3 Brown, Benjamin	Response Status O	L 40	# 141
frames for multicast. At "LGID(logical group ide	multicast channel configuratio tached file "choi_p2mp_1_03 entifier)" for grouping of some df" shows the changes of the o Response Status 0	04.pdf" suggests a logical ports (LLID	a new variable s). Attached file	Comment Type E typo SuggestedRemedy replace "sendin" wit Proposed Response	Comment Status D		

P802.3ah Draft 3.1 Comments SC 64.3.3.5 P473 L 50 # 142 C/ 64 SC 64.3.3.6 P477 L 20 Independent Kramer, Glen Teknovus TR Comment Status D Comment Type Comment Status D т MACR and MACI aliases are used in the state diagrams but are not defined anywhere. inconsistent use of variable star. It is also refered to as start_time and startTime. SuggestedRemedv Use 'start' on line 20 and line 24 Add the following aliases alphabetically in this subclause: Proposed Response Response Status 0 MACI - Alias for MA CONTROL indication MACR - Alias for MA_CONTROL.request

C/ 64

Kramer, Glen

Proposed Response Response Status 0

CI 64	SC 64.3.3.5	P 473	B L 53	#	143	
Brown, Benja	imin	Indepen	ndent			

Comment Type TR Comment Status D

Each of these primitives is followed by a list of parameters not operand lists. I debated over suggesting a major rewording of this section so that rather than define each primitive multiple times, you simply reference the primitive in 2.3.3.2 then here describe only the operand lists for each opcode. I decided not to push this as I think what you have here is adequate. However, since you are describing service primitives, the items in each primitive are parameters not operand lists.

SuggestedRemedy

C/ 64

Brown, Benjamin

Comment Type

SuggestedRemedy

For each primitive here, in 64.3.4.5 and 64.3.5.5, replace "This primitive takes the following operand list" with "This primitive takes the following parameters"

Proposed Response Response Status O

C/ 64	SC	64.3.3.5	P4	74	L 54	# 188	
Kramer, Glen			Tekno	ovus			
Comment Incore	t <i>Type</i> ect sente	E ence.	Comment Status	D			
Suggeste			omo tuno io on norro				

Remove word 'is'. The same typo is on page 475, line4

Proposed Response Response Status 0

Comment Status D Comment Type TR Figure 64-21: ONU timer is used incorrectly. It starts when the OLT sends GATE message to an ONU and is set for 10 msec. However, there is no requirement that the grant start time should be less than 10 msec away. This could lead to continuous ONU's registratiuon and geregistration cycles. SugaestedRemedv ONU_timer is not necessary at all. OLT can easily calculate the end time of the grant. If a REGISTER ACK is not received by this time, then deregister the ONU. place the following code in state WAIT FOR REGISTER_ACK: grantEndTime = start[0] + length[0] + RTT use the following label for the transition from WAIT FOR REGISTER ACK to DEREGISTER: localTime = grantEndTime Proposed Response Response Status 0 C/ 64 SC 64.3.5.3 P487 / 37 Cravens, George Mindspeed

SC 64.3.3.6

Comment Status D Comment Type т

The values of A and B (used in the max() an min functions) must not be able to rollover, or the definition needs to be changed to require split horizon calculations.

P479

Teknovus

L15

See comment on 64.3.3.3

SuggestedRemedy

If the values of A and B are not capable of rollover, then this should be stated.

If the values of A and B are capable of rollover, then the definition of the max{} and min{} functions needs to be rewritten to require split horizon calculations.

Proposed Response Response Status 0

SC 64.3.5.3

578

189

187

P802.3ah Draft 3.1 (Comments
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C/ 64 SC 64.3.5.	6 P 490	<i>L</i> 1	# 668	C/ 64	SC 64.3.6.1	P 494	L 8	# 549
Dawe, Piers	Agilent	- 1	# 000	Lynskey, E		UNH-IOL	20	" 55
Comment Type E	Comment Status D			Comment	51	Comment Status D		
Line with just a full st	top					should not have a variable siz		
SuggestedRemedy ?				contains 4 grants. The actual size of the frame will be 64 bytes no matter how m are there. The number of grants is already contained in a field, and for all the gra aren't included in the frame the contents of the start time and length fields should				
Proposed Response	Response Status O			zero.				
						he problem of assigning the s		
C/ 64 SC 64.3.6. Lynskey, Eric	1 <i>P</i> 493 UNH-IOL	L 44	# 544	the co		lon't really exist. Currently, if 2, 3, and 4 will be filled with F		
Comment Type E	Comment Status D			Suggested	dRemedy			
21	er_on_time and laser_off_time erOffTime.	. Per 64.3.5.1 I t	hink you want to user			ATE MPCPDU so that there version of unused fields should be		bytes of pad added by
SuggestedRemedy				Proposed	Response	Response Status 0		
Change to laserOnT	ime and laserOffTime							
Proposed Response	Response Status O							
C/ 64 SC 64.3.6.	1 P493	L 47	# 123					
Choi, Su-il	ETRI							
Comment Type TR	Comment Status D							
	ength includes laser_on_time, s Start Time < Grant #n+1 Start T ne GATE MPCPDU.							
SuggestedRemedy								
Time". And, append	ition as "Grant #n Start Time + additional condition as "When "ime, then Grant #n+1 Start Tin	Grant #n Start Ti	me + Grant #n Length					

Proposed Response Response Status **0**

added to the Grant #n Length."

C/ 64	SC Figure 64-12	P 466	L 24	# 573
Cravens. G	George	Mindspeed		

Cravens, George

Comment Type T Comment Status D

Is the OLT Control Multiplexer really intended to filter transmit frames to prevent unsupported opcodes from being transmitted?

This seems very wrong, and may cause major headaches in the future since this would prevent a compliant design from ever supporting any new opcodes. Since PICS entry SM4 makes compliance mandatory, a "user friendly" design that allows upper layers to send whatever opcodes they desire would be non-compliant.

Also, if the filtering function is to remain, how is the errant frame flushed? It seems that simply returning to the Init state without setting transmitinProgress true and doing a dummy TransmitFrame() may cause undesirable results (a clogged MAC client).

This is potentially very broken, and probably deserves a TR comment, but I'll call it a "T".

SuggestedRemedy

Either:

1) (MUCH preferred) Delete the condition "(supported opcode)" from the two exit transitions from the PARSE OPCODE state.

or:

2) (Seems ungood) Make sure that when the Control Multiplexer filters transmit frames (based on opcodes), that the handshaking is done properly so that the offending frame is not stuck in the MAC client.

Also, if Tx frames are going to be dropped, an error must be signalled/counted somewhere (silently dropping frames is VERY bad and REALLY annoys those who have to debug the system), and a NOTE should be added to make it very clear that this is the intended (and in fact, mandated) behavior of the device.

Proposed Response Response Status 0

C/ 64	SC Figure 64-13	P 467	L19	#	575
Cravens, Geo	orge	Mindspeed			

Comment Type т Comment Status D

Same as the comment on Figure 64-12, only this time, for the ONU:

Is the ONU Control Multiplexer really intended to filter transmit frames to prevent unsupported opcodes from being transmitted?

This seems very wrong, and may cause major headaches in the future since this would prevent a compliant design from ever supporting any new opcodes. Since PICS entry SM5 makes compliance mandatory, a "user friendly" design that allows upper layers to send whatever opcodes they desire would be non-compliant.

Also, if the filtering function is to remain, how is the errant frame flushed? It seems that simply returning to the Init state without setting transmitinProgress true and doing a dummy TransmitFrame() may cause undesirable results (a clogged MAC client).

This is potentially very broken, and probably deserves a TR comment, but I'll call it a "T".

SuggestedRemedy

Either:

1) (MUCH preferred) Delete the condition "(supported opcode)" from the two exit transitions from the PARSE OPCODE state.

or:

2) (Seems ungood) Make sure that when the Control Multiplexer filters transmit frames (based on opcodes), that the handshaking is done properly so that the offending frame is not stuck in the MAC client.

Also, if Tx frames are going to be dropped, an error must be signalled/counted somewhere (silently dropping frames is VERY bad and REALLY annoys those who have to debug the system), and a NOTE should be added to make it very clear that this is the intended (and in fact, mandated) behavior of the device.

Proposed Response Response Status 0

C/ 64	SC Figure	• 64-3 P	453	L 46	# 564
Cravens, (George	Mine	dspeed		
Comment	Туре Е	Comment Statu	s D		
The a showr		veFrame() should be	pointing ir	nto the Control I	Parser (not out as
Suggested	dRemedy				
Suggested Chang block)	ge the arrow fo	or ReceiveFrame() to	an "up" ar	row (pointing in	to the Control Parser

P802.3ah Draft 3.1	Comments
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Cl 64 SC figure 6 Cravens, George	4-6 P 457 Mindspeed	L 45	# 571	Cl 65 Thompson,	SC 65.1 Geoffrey	Р 506 Nortel	L 12	# 99307
Comment Type E The Arrow for Recieve SuggestedRemedy	Comment Status D Frame() should be pointing	into the Control	Parser Block.	violatio	tire concept of	Comment Status R this extension to emulate poin ng text extracted from the Ove access points (SAPs)		
Change the arrow for block). Proposed Response	ReceiveFrame() to an "up" arr	ow (pointing into	the Control Parser	"The M	IAC sublayer pr	ovides a single MAC service a er in an end station."	access point (MS	SAP) as an interface
Proposed Response						ovides an interface port to a s a violation of the 5 Criteria co		
Cl 64 SC General Grow, Robert	P 450 Intel	L	# 99316	Suggested Alter di		ithin original commitment.		
of the 802.3 MAC. P2 MAC is confusing and specification method. SuggestedRemedy	Comment Status A e multi-point MAC protocol is a MP defines its own MAC proto does the implementer a disse on of P2MP by defining its MA Response Status U	ocol and reference prvice in choosing	ce to the Clause 4 g that indirect	as an i provide are not P2P er	atements "The I nterface port to es an interface a requirement nulation concep	Response Status U MAC sublayer provides a sing the LLC sublayer in an end st port to a single MAC station, for 802 networks.	tation." AND "Th " do not have with 802 Networł	e Physical layer a 'shall' and therefore
ACCEPT IN PRINCIP	, -	plex MAC clause	or normative annex	Cl 65 Dawe, Pier	SC 65.1.3.2	irements undertaken by the 8 P511 Agilent	<i>L</i> 37	# 368
will be added per reso The combination of M	lution of the P2MP/OAM motion PCP as specified in clause 64 as requested by the comment	on adopted on 01 with this thin MA	/13/2004.	Comment	<i>Type</i> T se of SPD clash	Comment Status D	in 1.4.261 (it's th	e /S/ you refer to in
Passed by acclaimation	n			Suggested Use a c	<i>Remedy</i> different name f	for your 'SPD'.		

C/ 65 SC 65.1.3.3.2	P 514	L11	# 124	C/ 65 SC 65.2.2.2.	I P 517	L 51	# 543
Choi, Su-il	ETRI			Lynskey, Eric	UNH-IOL		
Comment Type TR	Comment Status D			Comment Type E	Comment Status D		
	additional multicast MACs are			Typo for variable name	. Subclause 64.5.3.1 refers t	o it as laserOnTi	me.
multicast MACs require match of SCB_LLID(0x	multicast_llid individually. Ho	owever, each Of	NU checks only the	SuggestedRemedy			
SuggestedRemedy	,			Change laser_on_time	to laserOnTime		
Add additional compari the multicast_llids, ther	son as ", or the received loo "	gical_link_id mat	tches 0x7FFF or one of	Proposed Response	Response Status O		
Proposed Response	Response Status 0			C/ 65 SC 65.2.2.2.	P 517	L 52	# 190
				Kramer, Glen	Teknovus	L JZ	# 190
C/ 65 SC 65.2.2.1	P516	L1	# 669	Comment Type TR	Comment Status D		
Dawe, Piers	Agilent			•••	uffer shall be such that the tot	al data delay thr	ough the PHY
Comment Type E Line with just a full stop	Comment Status D			(including delays introd DelayBound.	luced by optional FEC functio	n and PMA subla	ayer) is equal to
SuggestedRemedy Take out preceding line	feed?			turned on. This approa	rect and may result in data tra ch will only work if Data Deter		
Proposed Response	Response Status O			encoder (but it is not th	e case).		
				SuggestedRemedy Remove this sentense.			
C/ 65 SC 65.2.2.2	P 517	L 30	# 191	Proposed Response	Response Status 0		
Kramer, Glen	Teknovus						
Comment Type E	Comment Status D			C/ 65 SC 65.2.2.3	P 518	L 54	# 671
Typo in section title				Dawe, Piers	Agilent		
SuggestedRemedy				Comment Type E "Line with just a full sto	Comment Status D p, empty line"		
Proposed Response	Response Status O			SuggestedRemedy Take out preceding two) line feeds?		
C/ 65 SC 65.2.2.2 Dawe, Piers	P 517 Agilent	L 31	# 670	Proposed Response	Response Status O		
Comment Type E Strange character (pipe	Comment Status D						
SuggestedRemedy							

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/

C/ 65 SC 65.2.2.3	P 520	L 23	# 672	CI 65 SC	65.2.3.3.4	4 P 523	L 46	# 182
Dawe, Piers	Agilent			Lior Khermosh		Passave		
Comment Type E	Comment Status D			Comment Type	т	Comment Status D		
Reed Solomon or Reed-	Solomon?					the PCS does not see the unp generates Idles for the PCS (T		
SuggestedRemedy Choose one				state FILL_S not happen	SEARCH_S and there is	SFEC_TFEC and should be ac s no generation of FALSE_CA	ded there agair	n) so that this state can
Proposed Response	Response Status O			devices is v				
				SuggestedReme Remove the	•	in lines 46-48. Add the transr	nission of Idles	to the diagram 65-
65 SC 65.2.3	P 519	L 36	# 192	13/14 when				
Kramer, Glen	Teknovus			Proposed Respo	onse	Response Status O		
Comment Type T	Comment Status D							
	he Data Detector block perfector block perfect			C/ 65 SC	C 65.3	P 532	L 37	# 674
octets.	···· ···· · · · · · · · · · · · · · ·		·····	Dawe, Piers		Agilent		
	rect. Data Detector does not	control MAC an	ymore	Comment Type Two spaces	E between 'F	Comment Status D PMA and 'for'?		
SuggestedRemedy Remove this sentence				SuggestedReme	edy			
Proposed Response	Response Status 0			Proposed Respo	onse	Response Status O		
C/ 65 SC 65.2.3.3.4 Dawe, Piers	P 522	L 54	# 673	C/ 65 SC	C 65.3.1	P 528	L14	# 99308
	Agilent			Dawe, Piers		Agilent		
Comment Type E 1. On line by itself	Comment Status D			Comment Type Need to defi		Comment Status A A primitive for laser control sh	own in fia 65-4.	D3.0 #38
SuggestedRemedy				SuggestedReme			g	
Proposed Response	Response Status O				lause, for P	X-U PMA (see another comm	ent), define this	PMA primitive for
					ng additiona	al primitives is defined:		
				' The semant receipt.	tics of the s	ervice primitive are x(y). Exp	lanation, When	generated, effect of
				stated, cons	I PRINCIPL with previou sistent with	Response Status U E. Is discussions PMA tunneling SD. The figure 65-4 is to be r () primitive going around PMA	edrawn to show	

C/ 65 SC 65.3.1	P 532	L 43	# 323	C/ 65 SC 65.4.4	P 535	L 39	# 676
Dawe, Piers	Agilent			Dawe, Piers	Agilent		
Comment Type TR	Comment Status D			Comment Type E	Comment Status D		
	nitive. It's just housekeepin ear my TR 381 against D3.0		made to do it in other	Other clauses have a 65.4	attached the copyright release t	o the second lev	el subclause title e.g.
SuggestedRemedy				SuggestedRemedy			
In addition to the primitive PMD_SIGNAL.request in the primitive procession of the primitive primiti primitive primitive primitive primitive primiti primitive primiti	um Attachment (PMA) subla ves of Clause 36, the followi s received from the PCS an . The semantics are PMD	ng primitive is de d passed in time	ly fashion and without	Proposed Response	Response Status O		
tx_enable parameter ca	n take one of two values, O enerated by the PCS's data	NorOFF. This p	primitive controls PMD	C/ 65 SC 65.4.4. Dawe, Piers	7 P 537 Agilent	L 22	# 369
Proposed Response	Response Status O			Comment Type T Need another PICS e	Comment Status D entry for OLT's CDR lock timing	I	
CI 65 SC 65.3.2	P 533	<i>L</i> 1	# 367	SuggestedRemedy Add another PICS er	ntry.		
Dawe, Piers	Agilent			Proposed Response	Response Status 0		
Comment Type E typo	Comment Status D						
SuggestedRemedy -U should be -D.				C/ 66 SC Thompson, Geoffrey	P Nortel	L	# 375
Proposed Response	Response Status O			Comment Type TR	Comment Status D		
					made for 100 Mb/s that violate entation that added 100 M to th		promises commited t
C/ 65 SC 65.4.2.2	P 534	L 39	# 675	Compatibility			
Dawe, Piers	Agilent	200	# 015		& PMA assumed, and the 802. atsoever to the MAC	3 MAC	
Comment Type E	Comment Status D			- PHY identical to - No change to C	current 100Mbps Std except fo	or a new PMD	
Font size not consistent				- Retain all state	machines, 4B/5B coding etc. of		
SuggestedRemedy				o Physical med - Compatible with	extend Clause 26, 100BASE-F lium compatibility through SMF existing 1000BASE-LX		
Proposed Response	Response Status O			- Provides upgrad untouched	de paths to higher speeds and i	multiple wavelen	gths, with fiber plant
				SuggestedRemedy			
					to 100BASE-X other than PMI e 5 Criteria Compatibility promis		
				· •			

C/ 66 Dawe, Piers	# 99312	L 1	P 535 Agilent	SC 66	<i>CI</i> 66 Dawe, Pie
Comment Ty 10Gb/s r	D3.0 #380		ment Status A		Commen
SuggestedR "10 Gb/s 66.4.1, s			pe ('access' vs. 'cam	quired' aspect of this n PMD type, network nment against 57.1.2	betwe
Proposed Re	'broadband'	ess to that sort o	n subscribers get ac	, this clause affects ber access' at all - w	subso
<i>Cl</i> 66 Booth, Brad		,	e to me.	? And it tries to do i and doesn't make se	drafts
Comment Ty Paragrap words.	fault' or 'far end fault	s sending 'remote	g to a station which i	pposed changes wou tly forbidden: transm on' - saying it can't h n the rules.	prese indica
SuggestedR Change "should"	hat's as it should be	l in Table 56-2.		66 RS, PCS and PM t for 1000BASE-PX-[
"should"				Remedy	Suggeste
Proposed Re				ached file for propos ww.ieee802.org/3/ef	
			onse Status U	Response Re	Proposea
C/ 66 Dawe, Piers				PT IN PRINCIPLE.	
Comment Ty pert				vant to use the 1000l se the PCS/RS defin not specified.	must
SuggestedR part	t is used to	depends on how		ID can be fully comp ine what its PHY type	
Proposed Re				es to make	Chan
			agraph before 66.1	text changes to last	Acce
<i>CI 66</i> Brown, Benja	ss of whether the			- replace "regardless as determined that a	
Comment Ty wrong w				change to 66.2.2	Same
SuggestedR Replace					
Proposed Re					

CI 66 SC 66	P 539	L 1	# 677
Dawe, Piers	Agilent		
Comment Type E 10Gb/s needs a space	Comment Status D		
SuggestedRemedy "10 Gb/s. Also title of 66.4.1, several more	66.3, twice in 66.3.1, three ti ."	mes in 66.3.2, titl	e of 66.4, once in
Proposed Response	Response Status O		
	P 540	L1	# 557
Booth, Brad	Intel		
Comment Type TR Paragraph makes use words.	Comment Status D of "should" and "must". IEE	E 802.3 tries to a	void the use of such
SuggestedRemedy			
Change "should" in 2n	id sentence to "may". In the	3rd sentence, cha	ange second and third
"should" to be "shall". "should" in 5th senten	In the 4th sentence, change ce to be a "shall".	both "must" to be	e "shall". Change
"should" in 5th senten		both "must" to be	e "shall". Change
"should" in 5th senten Proposed Response Cl 66 SC 66	ce to be a "shall". Response Status O P 540	L8	e "shall". Change # <u>340</u>
"should" in 5th senten Proposed Response Cl 66 SC 66	ce to be a "shall". Response Status O		
"should" in 5th senten Proposed Response	ce to be a "shall". Response Status O P 540		
"should" in 5th senten Proposed Response Cl 66 SC 66 Dawe, Piers Comment Type E	ce to be a "shall". <i>Response Status</i> O <i>P</i> 540 Agilent		
"should" in 5th senten Proposed Response Cl 66 SC 66 Dawe, Piers Comment Type E pert SuggestedRemedy part	ce to be a "shall". <i>Response Status</i> O <i>P</i> 540 Agilent		
"should" in 5th senten Proposed Response Cl 66 SC 66 Dawe, Piers Comment Type E pert SuggestedRemedy part Proposed Response Cl 66 SC 66.0	ce to be a "shall". Response Status O P540 Agilent Comment Status D Response Status O P540	L8 L8	
"should" in 5th senten Proposed Response Cl 66 SC 66 Dawe, Piers Comment Type E pert SuggestedRemedy part Proposed Response Cl 66 SC 66.0	ce to be a "shall". <i>Response Status</i> O <i>P</i> 540 Agilent <i>Comment Status</i> D <i>Response Status</i> O	L8 L8	# <u>340</u>
"should" in 5th senten Proposed Response Cl 66 SC 66 Dawe, Piers Comment Type E pert SuggestedRemedy part Proposed Response Cl 66 SC 66.0 Brown, Benjamin	ce to be a "shall". Response Status O P540 Agilent Comment Status D Response Status O P540	L8 L8	# <u>340</u>
"should" in 5th senten Proposed Response Cl 66 SC 66 Dawe, Piers Comment Type E pert SuggestedRemedy part Proposed Response Cl 66 SC 66.0 Brown, Benjamin Comment Type E	ce to be a "shall". Response Status O P540 Agilent Comment Status D Response Status O P540 Independent Comment Status D	L8 L8	# <u>340</u>

C/ 66	SC 66.1.1	P 540	L 19	# 342
Dawe, Pier	S	Agilent		

Comment Type **TR** Comment Status **D**

Unidirectional is of very minor use even for OAM. It doesn't 'support subscriber access networks', they'll work without it. In general it duplicates PHY layer mechanisms that will do a better job of protection switching, being hardware oriented and so can be faster. It can't work on some PHYs so it's not as generic as hoped. But maybe having both mechanisms is useful for managing complex multi-hop networks - which can exist in "traditional campus/industrial/core/metro markets too. There's nothing 'subscriber access' specific about this need.

100BASE-X optical has a suitable remote fault indication (FEFI) already, and 100BASE-LX10 type ports have been shipping for years. Let's not foul it up with a new feature, which itself need not be mandatory.

SuggestedRemedy

Change 'This subclause specifies changes to the 100BASE-X PCS and PMA for support of subscriber access networks.' to

'This subclause specifies optional variations to the 100BASE-X PCS and PMA for unidirectional transport of OAM frames.'

Proposed Response Response Status **O**

C/ 66	SC 66.1.1	P 540	L 20	# 341
Dawe, Pi	ers	Agilent		
Common	t Tuno TD	Commont Status D		

Comment Type TR Comment Status D

Please state the much less contentious proximate technical reason for these proposed changes. As in the clause title...

SuggestedRemedy

Change 'for support of subscriber access networks.' to 'for unidirectional transport of OAM frames'.

Proposed Response Response Status O

C/ 66	SC 66.1.1	P 540	L 21	# 349	
Dawe, Pie	ers	Agilent			
Comment	tType E	Comment Status D			
Isn't E	Ethernet a proper	name?			
Suggeste	dRemedy				
Give	it a capital letter,	here, in 66.2.1 and elsewhere.			

Proposed Response Response Status **O**

C/ 66	SC 66.1.1	P 540	L 21	#	343
Dawe, Piers	;	Agilent			

Comment Type TR Comment Status D

We should not talk about 'changes to the existing': clause 24 isn't changing, and when this draft standard is ratified, clauses 24 and 66 will both be 'existing' on an equal footing. It doesn't seem right to call mainstream Ethernet 'legacy' as if it's losing market traction and is going to be replaced by ATM or EFM or something.

SuggestedRemedy

Change 'These are changes to the existing 100BASE-X PCS and PMA for legacy ethernet as described in Clause 24.'

to: 'These are variations on the 100BASE-X PCS and PMA defined in Clause 24.'

Proposed Response Response Status **O**

CI 66	SC 66.1.2	P 540	L 26	# 344
Dawe, Pier	rs	Agilent		
Comment	Type TR	Comment Status D		

Removing duplication and contentious (marketing?) claim.

SuggestedRemedy

Change 'The 100BASE-X PCS and PMA for subscriber access networks shall conform to the requirements of the 100BASE-X PCS specified in 24.2 and the 100BASE-X PMA specified in 24.3 with the following exception: The 100BASE-X PCS for subscriber access networks has the ability ...'

to: 'A unidirectional capable 100BASE-X PCS and PMA shall conform to the requirements of the 100BASE-X PCS specified in 24.2 and the 100BASE-X PMA specified in 24.3 with the following exception: they have the ability ...'

Proposed Response Response Status **O**

CI 66	SC 66.1.2	P 540	L 26	# 345
Dawe, Piers		Agilent		

Comment Type E Comment Status D

Re 'transmit data from the MII' could be misleading: as the PCS has an MII, if it transmits from the MII, the PCS is transmitting towards its own MAC. Remember the semantic difficulty with XAUI 'transmitting' in two directions.

SuggestedRemedy

Delete 'from the MII'. Similarly 'from the GMII' in 66.2.2.

Proposed Response Response Status **O**

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page 1.
 Page 1.

 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 66

Page 123 of 130 C/ 66 SC 66.1.2

CI 66	SC 66.1.2.2	P 540	L 50	# 373
Thompsor	n, Geoffrey	Nortel		

Comment Type E Comment Status D

I believe that the current organization of the text is confusing to many who are not intimately familiar with 10BASE-T.

Having the text in a single paragraph confuses that the functions of collision detection and transmit disable are a single function rather than 2 entirely separate functions.

Insert a paragraph split as indicated below.

SuggestedRemedy

"Collision detection is implemented by noting the occurrence of carrier receptions during transmissions, following the model of 10BASE-T. The indication of link_status ..."

SHOULD BE SPLIT INTO TWO PARAGRAPHS, I.E.:

"Collision detection is implemented by noting the occurrence of carrier receptions during transmissions, following the model of 10BASE-T.

The indication of link_status..." (A Maint Request has been entered to fix this in the current standard.)

Proposed Response Response Status O

C/ 66	SC 66.1.2.3	P 541	L 51	# 346
Dawe, Piers		Agilent		

Comment Type TR Comment Status D

If we agree that OAM frames indicating remote fault embedded in PHY layer RF are good, or acceptable, for 10G then the same is true for 100BASE-X, except it's called FEFI rather than RF.

I do think that fast, hardware oriented, already standardized, protection switching will be needed in access networks in particular to carry time-sensitive traffic like voice and video, especially on the slower link types.

As FEFI is optional, the remedy below behaves as the current draft 3.1 when FEFI is turned off. Conveniently, 100BASE-FX doesn't have auto-negotiation. Not sure if we need a whole nibble of guard band (see suggested remedy); willing to optimise that.

SuggestedRemedy

Change 'Far-End Fault Generate simply passes tx_code-bits to the TX process when signal_status=ON or when mr_unidirectional_enable=TRUE. When signal_status=OFF and mr_unidirectional_enable=FALSE, it repetitively generates each cycle of the Far-End Fault Indication until signal_status is reasserted or mr_unidirectional_enable is set to TRUE.' to:

'Far-End Fault Generate simply passes tx_code-bits to the TX process when signal_status=ON. When signal_status=OFF and mr_unidirectional_enable=FALSE, it repetitively generates each cycle of the Far-End Fault Indication until signal_status=OFF and mr_unidirectional_enable=TRUE, it repetitively generates each cycle of the Far-End Fault Indication until signal_status=OFF and mr_unidirectional_enable=TRUE, it repetitively generates each cycle of the Far-End Fault Indication, interrupted by any frames, until signal_status is reasserted. There is least one nibble (5 bits on the line) of ONEs between a ZERO in the Far-End Fault Indication stream and the start of stream delimiter to avoid error propagation'. Change the Far-End Fault Generate state diagram accordingly.

Proposed Response Response Status **0**

C/ 66	SC 66.2.1	P 542	L 41	# 347
Dawe, Piers	;	Agilent		

Comment Type TR Comment Status D

Similarly to one of my comments against 66.1.1: Unidirectional is less valuable than avoiding retrospective changes, allowing 1000BASE-LX10 to be used in traditional Ethernet, allowing CO Ethernet equipment to straddle the divide between traditional Ethernet and access Ethernet, not fragmenting the market, and not causing possible interoperability problems. This new way of signaling RF has to be optional and should not if practicable foul up the existing way. Also, stating the much less contentious proximate technical reason for these proposed changes.

SuggestedRemedy

Change 'This subclause specifies changes to the 1000BASE-X PCS for support of subscriber access networks.' to

'This subclause specifies optional variations to the 1000BASE-X PCS for unidirectional transport of OAM frames.'

Proposed Response Response Status **O**

C/ 66	SC 66.2.1	P 542	L 42	# 348
Dawe, Pie	ers	Agilent		

Comment Type TR Comment Status D

We should not talk about 'changes to the existing': clause 36 isn't changing, and when this draft standard is ratified, clauses 36 and 66 will both be 'existing' on an equal footing. It doesn't seem right to call mainstream Ethernet 'legacy' as if it's losing market traction and going to be replaced by ATM or EFM or something. Also, should give clause 37 a mention.

SuggestedRemedy

Change 'These are changes to the existing 1000BASE-X PCS for legacy ethernet as described in Clause 36.'

to: 'These are variations on the 1000BASE-X PCS defined in Clause 36 and Clause 37.'

Proposed Response Response Status **O**

C/ 66	SC 66.2.1	P 542	L 43	#	350	
Dawe, Piers		Agilent				

Comment Type TR Comment Status D

Need to add a statement saying when this mode or type is applicable. It can't be required for 1000BASE-LX10, there's too much stuff out there. If it causes an interop problem, it shouldn't be allowed on 1000BASE-LX10 because that's meant to be connected to 1000BASE-LX.

SuggestedRemedy

Add sentence 'They are optional for P2P 1000BASE-X PHYs, mandatory for 1000BASE-PX-D and optional but to be used with caution for 1000BASE-PX-U.' or: 'They are optional for 1000BASE-LX10 and 1000BASE-BX10, mandatory for 1000BASE-PX-D, optional but to be used with caution for 1000BASE-PX-U and not applicable to other PHY types.' or: 'They are optional for 1000BASE-BX10, mandatory for 1000BASE-PX-D, optional but to be used with caution for 1000BASE-BX10, mandatory for 1000BASE-PX-D, optional but to be used with caution for 1000BASE-PX-U and not applicable to other PHY types.'

Proposed Response Response Status **O**

C/ 66	SC 66.2.2	P 542	L 46	# 351
Dawe, Pier	S	Agilent		
Comment 7	Type TR	Comment Status D		

Removing duplication and contentious (marketing?) claim.

SuggestedRemedy

Change 'The 1000BASE-X PCS for subscriber access networks shall conform to the requirements of the 100BASE-X PCS specified in 24.2 and the 100BASE-X PMA specified in 36.2 with the following exception: The 100BASE-X PCS for subscriber access networks has the ability ...'

to: 'A unidirectional capable 1000BASE-X PCS shall conform to the requirements of the 100BASE-X PCS specified in 36.2 with the following exception: it has the ability ...'

Proposed Response Response Status O

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 125 of 130 C/ 66 SC 66.2.2

C/ 66	SC 66.2.2.3	P 543	L 25	# 352	C/ 66 SC 66.3.	2.2 P 540	L 41	# 99313
Dawe, Pier	S	Agilent	-		Grow, Robert	Intel		
Comment Type TR Comment Status D If we agree that OAM frames indicating remote fault embedded in PHY layer RF are good, or acceptable, for 10G then the same is true for 1000BASE-X, except it's called /C/ ordered sets rather than RF.					enabled.	Comment Status R ds to be better tied to the registe	er bits that define	D3.0 #55 unidirectional being
I do thi needeo especia to cut t	ink that fast, ha d in access net ally on the slow the Gordian kno	rdware oriented already stand works in particular to carry time ver link types. But having inves of and get away from clause 37 shaves as the current draft 3.1	e-sensitive traffic stigated it I see w ' altogether!	like voice and video, hy you were tempted	SuggestedRemedy TRUE; Unidirectior Proposed Response REJECT.	al capability enabled (register b Response Status U	its 0.1 = 1 and 1.7	7 = 1, see Clause 22)
Suggested Chang		nat when signal_status=OFF a	nd mr_unidirectio	nal_enable=TRUE,		use 22 registers have never bee RS. While the RS is part of the		
Ensure (and ar	e that the recep ny protection a	/C/, or a mix of /C/ and /I/, intel tion of this can be used simply ction) rather than triggering a r e 37-6 to achieve this.	to inhibit transmi	ission of client frames	C/ 66 SC 66.4.2 Dawe, Piers	Agilent	L 41	# 354
Proposed I	Response	Response Status 0			Comment Type E Font size, right han	Comment Status D d cell.		
C/ 66	SC 66.3.1	P 543	L 53	# 353	SuggestedRemedy			
Dawe, Pier	S	Agilent			Proposed Response	Response Status O		
Comment	Type TR	Comment Status D						
some o	debate about w	and contentious (marketing?) hether this (10G) modification hat it's not mandatory.			C/ 66 SC 66.4.2 Dawe, Piers	2.2 P 545 Agilent	L 41	# 356
Suggested	Remedy				Comment Type TR	Comment Status D		
		se specifies changes to the 10 ase are changes to the existing				claims out of the PICS tables!		
describ 'This si	bed in Clause 4 ubclause speci			0		pports functionality required for e has unidirectional capability' (t		scriber access
Proposed I	Response	Response Status O			Proposed Response	Response Status O		
<i>Cl</i> 66 Dawe, Pier	SC 66.3.1	Р 543 Agilent	L 54	# 678				
Comment I Isn't Et	<i>Type</i> E hernet a prope	Comment Status D r name?						
Suggested Leave	<i>Remedy</i> it in capitals.							
Proposed P	Response	Response Status O						

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

P802.3ah Draft 3.1	Comments
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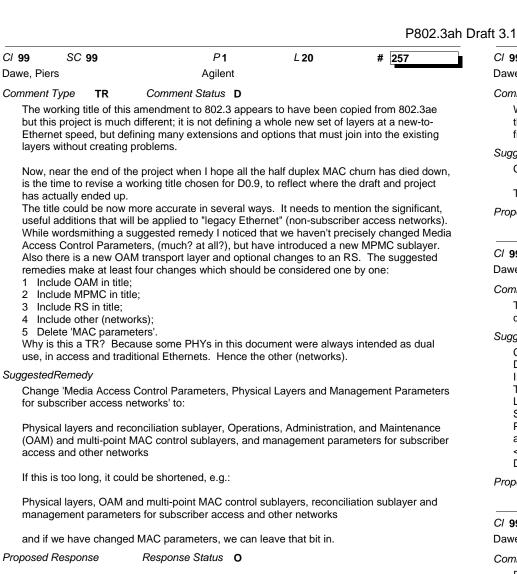
<i>CI 66</i> Dawe, Pie	SC 66.4.2.2	P 545 Agilent	L 41	# 357	C/ 67A SC 67A.2 Dawe, Piers	P 678 Agilent	L 12	# 339
Comment Need		Comment Status D datory for 1000BASE-PX-D (OLT).		Comment Type E Unnecessary line feeds	Comment Status D s within cells		
Insert	dRemedy new row: 1000BASE-PX-D	66.2.1 PCS is part of a 1000	BASE-PX-D O Y	∕es[]No[] Add	SuggestedRemedy Please remove them: li			
	er status to *GIG,				Proposed Response	Response Status O		
Proposed	Response	Response Status O			C/ 67A SC 67A.2	P 678	L 39	# 338
CI 66	SC 66.4.2.2	P 545	L 43	# 355	Dawe, Piers	Agilent		
Dawe, Pie	ers	Agilent			Comment Type E	Comment Status D		
Comment		Comment Status D			Double reference: 67A.	2 66A.3		
Identi	fication needs to a	agree with clause title.			SuggestedRemedy Delete '66A.3'.			
	dRemedy					Deserves Status		
Chan trans	ge 'for Operations port'. Also in title o	, Administration, and Manage of 66.4.4.	ement (OAM)' to	'for unidirectional	Proposed Response	Response Status O		
Proposed	Response	Response Status 0			C/ 67A SC 67A.2 Dawe, Piers	P 678 Agilent	L 39	# 337
<i>Cl 67</i> Dawe, Pie	SC 67.1	P 550 Agilent	L 43	# 335	Comment Type E Too many blank lines	Comment Status D		
<i>Comment</i> This i		Comment Status D Number of PHY segment			SuggestedRemedy Take out any duplicate	carriage feeds.		
	dRemedy e 'Number of PHY	's per segment'?			Proposed Response	Response Status 0		
Proposed	Response	Response Status O						
<i>Cl</i> 67 Dawe, Pie	SC 67.3	P 552 Agilent	L 32	# 336				
Comment		Comment Status D						
	<i>dRemedy</i> out any duplicate	carriage feeds.						
Take								

Page 127 of 130 C/ 67A SC 67A.2

C/ 99 SC P L # 122 Michelle Turner IEEE-SA IEEE-SA	C/ 99 SC Dr. David V. James	P 2	L 1	# 590
Comment Type E Comment Status D Upon editorial review of IEEE P802.3ah/D3.1, I have the following comments.	Comment Type TR Comme Excess capitalization	ent Status D		
For further guidance in preparing an IEEE Standard, here's the URL for access to the on- line version of the IEEE Standards Style Manual: http://standards.ieee.org/guides/style/index.html	SuggestedRemedy IEEE-SA Trademark Usage/Comp ==> IEEE-SA trademark usage/complia			
	Proposed Response Respons	se Status O		
In the introduction, change the designation to read IEEE P802.3ah instead of IEEE Std 802.3ah. It appears throughout the front matter the document is already referred to as IEEE Std 802.3ah-20xx. It should be IEEE P802.3ah.	C/ 99 SC Grow, Robert	P ii Intel	L	# 406
Please note* The Replace function in Amendments and Corrigendum will only be reserved for figures and tables. It is expected that this rule will be in place by June. At the time of RevCom submittal please remember to supply a separate electronic file for each graphic in TIFF, GIF, EPS, or WMF formats. At this same time, please be sure to	Comment Type E Comme Page ii is still there, and it is still of	ent Status D bsolete.		
supply a list of names and addresses for all members of the working group. This will ensure that each member gets a complimentary copy of the standard upon publication.	SuggestedRemedy Delete the page per my D3.0 com	ment that was acce	oted.	
SuggestedRemedy	Proposed Response Respons	se Status O		
Proposed Response Response Status O	C/ 99 SC Grow, Robert	P iv Intel	L7	# 407
C/ 99 SC P2 L1 # 589 Dr. David V. James	Comment Type E Comme 802.3ak is now approved and publ	ent Status D lished.		
Comment Type TR Comment Status D Either delete this header, or provide a sentence that states how the blank space will be	SuggestedRemedy Change "xx" to "04" (the year of pu	ublication).		
filled. SuggestedRemedy	Proposed Response Respons	se Status O		

Proposed Response

Response Status 0



C/99 S	SC 99	P1	L 34	# 258
Dawe, Piers		Agilent		
Comment Typ	e E	Comment Status D		

We should be positive not tentative about what we are doing. Also, it is no longer the case that: 'This draft also introduces the concept of Ethernet Passive Optical Networks ...'. The first draft said the same, so this one doesn't!

SuggestedRemedy

Change to:

This draft also specifies Ethernet Passive Optical Networks ...

Proposed Response Response Status 0

CI 99	SC 99	P1	L 9	# 256
Dawe, Piers		Agilent		

Comment Type Comment Status D E

Title repeats itself and is very hard to read - needs line feeds to break it up. Also doesn't quite follow style of base document or latest amendment (802.3ak).

SugaestedRemedv

Change to:		
Draft Amendment to:	<c r=""></c>	
IEEE Standard for In	formation technology <lo< th=""><td>ong dash><c r=""></c></td></lo<>	ong dash> <c r=""></c>
Telecommunications	and information exchar	nge between systems <long dash=""><c r=""></c></long>
Local and metropolita	an area networks <long< th=""><td>dash><c r=""></c></td></long<>	dash> <c r=""></c>
Specific requirement	s <c r=""></c>	
Part 3: Carrier sense and physical layer sp <c r=""></c>		ollision detection (CSMA/CD) access method
Draft amendment: <t< td=""><th>itle of this amendment></th><td></td></t<>	itle of this amendment>	
oposed Response	Response Status	0

<i>Cl</i> 99 Dawe, Pier	SC 99 's	Р 8 Agilent	L 12	# 260
Comment Rogue	<i>Type</i> E Capitals	Comment Status D		
Suggested subscr	,	vorks Also on line 31.		
Proposed I	Response	Response Status 0		

C/ 99 SC 99 Dawe, Piers	Р 8 Agilent	L 4	# 259	C/ A SC Squire, Matt	P 140 Hatteras Netv	L 29 works	# 600
Comment Type E ammended	Comment Status D			Comment Type E The reference to Y.17	Comment Status D 30 looks pretty short. Should	be expanded to	normal reference sty
SuggestedRemedy amended				SuggestedRemedy Unfortunately, I don't l	have the full reference. Hopef	ully someone at	the meeting will.
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 99 SC 99 Dawe, Piers	Р 9 Agilent	L 9	# 262	C/ A SC A Dawe, Piers	P 140 Agilent	L 29	# 300
Comment Type E Where does the 'Lis 802.3ae and couldn	Comment Status D t of special symbols' go? I looke 't see it.	ed at published p	odfs for 802.3-2002 and	Comment Type E Title of Y.1730. SuggestedRemedy	Comment Status D		
SuggestedRemedy				Requirements for OAI	M functions in Ethernet based	networks, dated	2004. Also, better to
	an end-matter book component			swap 'ITU-T' and 'Rec	commendation' around.		
consider moving the list so that a careful task.	ese two pages to an end-matter f reader will know that it's there.	file, and add an e This will simplify	entry into the contents the IEEE editors'	swap 'ITU-T' and 'Rec Proposed Response	commendation' around. Response Status O		
consider moving the list so that a careful task.	ese two pages to an end-matter f	file, and add an e This will simplify	entry into the contents the IEEE editors'	Proposed Response		L 6	# 655
consider moving the list so that a careful task. Also, please add a t editors.	ese two pages to an end-matter f reader will know that it's there.	file, and add an e This will simplify	entry into the contents the IEEE editors'	Proposed Response	Response Status O P186 Agilent	L 6	# 655
consider moving the list so that a careful task. Also, please add a t editors. Proposed Response	ese two pages to an end-matter f reader will know that it's there. able entry for the non-breaking s <i>Response Status</i> O	file, and add an e This will simplify space, to help fut	entry into the contents the IEEE editors' ture generations of	Proposed Response	Response Status O P186 Agilent Comment Status D	L 6	# <mark>655</mark>
consider moving the list so that a careful task. Also, please add a t editors. Proposed Response C/ 99 SC 99	ese two pages to an end-matter f reader will know that it's there. able entry for the non-breaking s	file, and add an e This will simplify	entry into the contents the IEEE editors'	Proposed Response Cl A SC A Dawe, Piers Comment Type E Extend the instruction SuggestedRemedy	Response Status O P186 Agilent Comment Status D s	L 6	# <u>655</u>
consider moving the list so that a careful task. Also, please add a t editors. Proposed Response Cl 99 SC 99 Dawe, Piers	ese two pages to an end-matter f reader will know that it's there. able entry for the non-breaking s <i>Response Status</i> O <i>P</i> 9	file, and add an e This will simplify space, to help fut	entry into the contents the IEEE editors' ture generations of	Proposed Response CI A SC A Dawe, Piers Comment Type E Extend the instruction SuggestedRemedy Add 'and renumber th	Response Status O P186 Agilent Comment Status D s e definitions as required.'	L 6	# <u>655</u>
consider moving the list so that a careful task. Also, please add a t editors. Proposed Response C/ 99 SC 99 Dawe, Piers Comment Type E	ese two pages to an end-matter f reader will know that it's there. able entry for the non-breaking s <i>Response Status</i> O <i>P</i> 9 Agilent	file, and add an e This will simplify space, to help fut	entry into the contents the IEEE editors' ture generations of	Proposed Response Cl A SC A Dawe, Piers Comment Type E Extend the instruction SuggestedRemedy	Response Status O P186 Agilent Comment Status D s	L 6	# <u>655</u>
consider moving the list so that a careful task. Also, please add a t editors. Proposed Response C/ 99 SC 99 Dawe, Piers Comment Type E	ese two pages to an end-matter f reader will know that it's there. able entry for the non-breaking s <i>Response Status</i> O <i>P</i> 9 Agilent <i>Comment Status</i> D ber name? It deserves a capital	file, and add an e This will simplify space, to help fut	entry into the contents the IEEE editors' ture generations of	Proposed Response CI A SC A Dawe, Piers Comment Type E Extend the instruction SuggestedRemedy Add 'and renumber th	Response Status O P186 Agilent Comment Status D s e definitions as required.'	L 6	# <u>655</u>